

ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy

AECOM

1001 Bishop Street
Honolulu HI 96813

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JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-122104-1

Eurofins Seattle

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

☒	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

CASE NARRATIVE

**Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-122104-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/11/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW03-WGN01LF-2301W1 (580-122104-1), AF-RHMW02-WGN01LF-2301W1 (580-122104-2),
AF-RHMW225401-WGN01B-2301W1 (580-122104-3), AF-RHMW17-WGN01LF-2301W1 (580-122104-4),
AF-RHMW17-WQFB01-2301W1 (580-122104-5), AF-RHMW17D-WGN01LF-2301W1 (580-122104-6),
AF-RHMW17D-WQEB01-2301W1 (580-122104-7), AF-RHMW03-WGN01LF-2301W2 (580-122104-8) and
AF-RHMW02-WGN01LF-2301W2 (580-122104-9) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI.
The samples were analyzed on 01/16/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W1

Lab Sample ID: 580-122104-1

No Detections.

Client Sample ID: AF-RHMW02-WGN01LF-2301W1

Lab Sample ID: 580-122104-2

No Detections.

Client Sample ID: AF-RHMW225401-WGN01B-2301W1

Lab Sample ID: 580-122104-3

No Detections.

Client Sample ID: AF-RHMW17-WGN01LF-2301W1

Lab Sample ID: 580-122104-4

No Detections.

Client Sample ID: AF-RHMW17-WQFB01-2301W1

Lab Sample ID: 580-122104-5

No Detections.

Client Sample ID: AF-RHMW17D-WGN01LF-2301W1

Lab Sample ID: 580-122104-6

No Detections.

Client Sample ID: AF-RHMW17D-WQEB01-2301W1

Lab Sample ID: 580-122104-7

No Detections.

Client Sample ID: AF-RHMW03-WGN01LF-2301W2

Lab Sample ID: 580-122104-8

No Detections.

Client Sample ID: AF-RHMW02-WGN01LF-2301W2

Lab Sample ID: 580-122104-9

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W1

Lab Sample ID: 580-122104-1

Matrix: Water

Date Collected: 01/05/23 13:55

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			01/16/23 15:29	1

Client Sample ID: AF-RHMW02-WGN01LF-2301W1

Lab Sample ID: 580-122104-2

Matrix: Water

Date Collected: 01/05/23 12:25

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			01/16/23 15:52	1

Client Sample ID: AF-RHMW225401-WGN01B-2301W1

Lab Sample ID: 580-122104-3

Matrix: Water

Date Collected: 01/05/23 08:55

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			01/16/23 16:16	1

Client Sample ID: AF-RHMW17-WGN01LF-2301W1

Lab Sample ID: 580-122104-4

Matrix: Water

Date Collected: 01/06/23 13:20

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			01/16/23 16:39	1

Client Sample ID: AF-RHMW17-WQFB01-2301W1

Lab Sample ID: 580-122104-5

Matrix: Water

Date Collected: 01/06/23 15:30

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			01/16/23 17:02	1

Client Sample ID: AF-RHMW17D-WGN01LF-2301W1

Lab Sample ID: 580-122104-6

Matrix: Water

Date Collected: 01/06/23 12:05

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			01/16/23 17:26	1

Client Sample ID: AF-RHMW17D-WQEB01-2301W1

Lab Sample ID: 580-122104-7

Matrix: Water

Date Collected: 01/06/23 15:25

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			01/16/23 17:49	1

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Client Sample Results

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W2

Lab Sample ID: 580-122104-8

Matrix: Water

Date Collected: 01/09/23 14:10

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			01/16/23 18:12	1

Client Sample ID: AF-RHMW02-WGN01LF-2301W2

Lab Sample ID: 580-122104-9

Matrix: Water

Date Collected: 01/09/23 12:40

Date Received: 01/11/23 15:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			01/16/23 18:36	1

Default Detection Limits

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	LOQ	DL	Units
2-(2-Butoxyethoxy)ethanol	5.0	1.1	mg/L

QC Sample Results

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-759183/10

Matrix: Water

Analysis Batch: 759183

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			01/16/23 15:06	1

Lab Sample ID: LCS 680-759183/6

Matrix: Water

Analysis Batch: 759183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD
2-(2-Butoxyethoxy)ethanol	20.0	19.0		mg/L		95	50 - 150	

Lab Sample ID: LCSD 680-759183/7

Matrix: Water

Analysis Batch: 759183

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD
2-(2-Butoxyethoxy)ethanol	20.0	18.8		mg/L		94	50 - 150	1

Lab Sample ID: 580-122104-1 MS

Matrix: Water

Analysis Batch: 759183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD
2-(2-Butoxyethoxy)ethanol	3.0	U	20.0	20.0		mg/L		100	50 - 150	

Lab Sample ID: 580-122104-1 MSD

Matrix: Water

Analysis Batch: 759183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD
2-(2-Butoxyethoxy)ethanol	3.0	U	20.0	19.1		mg/L		96	50 - 150	4

Client Sample ID: Method Blank

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: AF-RHMW03-WGN01LF-2301W1

Prep Type: Total/NA

Client Sample ID: AF-RHMW03-WGN01LF-2301W1

Prep Type: Total/NA

QC Association Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

GC Semi VOA

Analysis Batch: 759183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-122104-1	AF-RHMW03-WGN01LF-2301W1	Total/NA	Water	8015C GLY	
580-122104-2	AF-RHMW02-WGN01LF-2301W1	Total/NA	Water	8015C GLY	
580-122104-3	AF-RHMW225401-WGN01B-2301W1	Total/NA	Water	8015C GLY	
580-122104-4	AF-RHMW17-WGN01LF-2301W1	Total/NA	Water	8015C GLY	
580-122104-5	AF-RHMW17-WQFB01-2301W1	Total/NA	Water	8015C GLY	
580-122104-6	AF-RHMW17D-WGN01LF-2301W1	Total/NA	Water	8015C GLY	
580-122104-7	AF-RHMW17D-WQEB01-2301W1	Total/NA	Water	8015C GLY	
580-122104-8	AF-RHMW03-WGN01LF-2301W2	Total/NA	Water	8015C GLY	
580-122104-9	AF-RHMW02-WGN01LF-2301W2	Total/NA	Water	8015C GLY	
MB 680-759183/10	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-759183/6	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-759183/7	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-122104-1 MS	AF-RHMW03-WGN01LF-2301W1	Total/NA	Water	8015C GLY	
580-122104-1 MSD	AF-RHMW03-WGN01LF-2301W1	Total/NA	Water	8015C GLY	

Lab Chronicle

Client: AECOM

Job ID: 580-122104-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2301W1

Lab Sample ID: 580-122104-1

Matrix: Water

Date Collected: 01/05/23 13:55

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 15:29

Client Sample ID: AF-RHMW02-WGN01LF-2301W1

Lab Sample ID: 580-122104-2

Matrix: Water

Date Collected: 01/05/23 12:25

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 15:52

Client Sample ID: AF-RHMW225401-WGN01B-2301W1

Lab Sample ID: 580-122104-3

Matrix: Water

Date Collected: 01/05/23 08:55

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 16:16

Client Sample ID: AF-RHMW17-WGN01LF-2301W1

Lab Sample ID: 580-122104-4

Matrix: Water

Date Collected: 01/06/23 13:20

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 16:39

Client Sample ID: AF-RHMW17-WQFB01-2301W1

Lab Sample ID: 580-122104-5

Matrix: Water

Date Collected: 01/06/23 15:30

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 17:02

Client Sample ID: AF-RHMW17D-WGN01LF-2301W1

Lab Sample ID: 580-122104-6

Matrix: Water

Date Collected: 01/06/23 12:05

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 17:26

Client Sample ID: AF-RHMW17D-WQEB01-2301W1

Lab Sample ID: 580-122104-7

Matrix: Water

Date Collected: 01/06/23 15:25

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 17:49

Eurofins Seattle

Lab Chronicle

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W2

Lab Sample ID: 580-122104-8

Matrix: Water

Date Collected: 01/09/23 14:10

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 18:12

Client Sample ID: AF-RHMW02-WGN01LF-2301W2

Lab Sample ID: 580-122104-9

Matrix: Water

Date Collected: 01/09/23 12:40

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 18:36

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol

Method Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Method	Method Description	Protocol	Laboratory
8015C GLY	Glycols- Direct Injection (GC/FID)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-122104-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-122104-1	AF-RHMW03-WGN01LF-2301W1	Water	01/05/23 13:55	01/11/23 15:00
580-122104-2	AF-RHMW02-WGN01LF-2301W1	Water	01/05/23 12:25	01/11/23 15:00
580-122104-3	AF-RHMW225401-WGN01B-2301W1	Water	01/05/23 08:55	01/11/23 15:00
580-122104-4	AF-RHMW17-WGN01LF-2301W1	Water	01/06/23 13:20	01/11/23 15:00
580-122104-5	AF-RHMW17-WQFB01-2301W1	Water	01/06/23 15:30	01/11/23 15:00
580-122104-6	AF-RHMW17D-WGN01LF-2301W1	Water	01/06/23 12:05	01/11/23 15:00
580-122104-7	AF-RHMW17D-WQEB01-2301W1	Water	01/06/23 15:25	01/11/23 15:00
580-122104-8	AF-RHMW03-WGN01LF-2301W2	Water	01/09/23 14:10	01/11/23 15:00
580-122104-9	AF-RHMW02-WGN01LF-2301W2	Water	01/09/23 12:40	01/11/23 15:00

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Instrument ID: CVGG2

Analysis Batch Number: 758737

Lab Sample ID: IC 680-758737/12

Client Sample ID: _____

Date Analyzed: 01/11/23 19:18

Lab File ID: GA11012.D

GC Column: J&W DB WAX

ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	3.12	Peak assignment corrected	SWK1	01/11/23 19:39
4-Hydroxy-4-methyl-2-pentanone	3.72	Peak assignment corrected	SWK1	01/11/23 19:39
2-Butoxyethanol	4.03	Peak assignment corrected	SWK1	01/11/23 19:39
n-Heptyl Alcohol	4.51	Peak assignment corrected	SWK1	01/11/23 19:39
Dipropylene Glycol Methyl Ether	5.47	Peak assignment corrected	SWK1	01/11/23 19:39
Propylene glycol	6.34	Peak assignment corrected	SWK1	01/11/23 19:39
Ethylene glycol	6.78	Peak assignment corrected	SWK1	01/11/23 19:39
2-(2-Butoxyethoxy)ethanol	8.76	Peak assignment corrected	SWK1	01/11/23 19:39
2,2'-Oxybisethanol	9.74	Peak assignment corrected	SWK1	01/11/23 19:39
Triethylene Glycol	10.75	Baseline Smoothing	SWK1	01/11/23 19:39
Tetraethylene Glycol	12.02	Peak assignment corrected	SWK1	01/11/23 19:39

Lab Sample ID: IC 680-758737/13

Client Sample ID: _____

Date Analyzed: 01/11/23 19:41

Lab File ID: GA11013.D

GC Column: J&W DB WAX

ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	10.75	Baseline Smoothing	SWK1	01/11/23 20:18

Lab Sample ID: IC 680-758737/14

Client Sample ID: _____

Date Analyzed: 01/11/23 20:04

Lab File ID: GA11014.D

GC Column: J&W DB WAX

ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	10.75	Baseline Smoothing	SWK1	01/11/23 20:51

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Instrument ID: CVGG2

Analysis Batch Number: 758737

Lab Sample ID: ICIS 680-758737/15

Client Sample ID: _____

Date Analyzed: 01/11/23 20:28

Lab File ID: GA11015.D

GC Column: J&W DB WAX

ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	3.12	Baseline Smoothing	SWK1	01/11/23 20:52
Triethylene Glycol	10.75	Baseline Smoothing	SWK1	01/11/23 20:52

Lab Sample ID: IC 680-758737/16

Client Sample ID: _____

Date Analyzed: 01/11/23 20:51

Lab File ID: GA11016.D

GC Column: J&W DB WAX

ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	10.75	Baseline Smoothing	SWK1	01/11/23 21:35

Lab Sample ID: IC 680-758737/17

Client Sample ID: _____

Date Analyzed: 01/11/23 21:14

Lab File ID: GA11017.D

GC Column: J&W DB WAX

ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	10.75	Baseline Smoothing	SWK1	01/11/23 21:35

Lab Sample ID: ICV 680-758737/18 CCV

Client Sample ID: _____

Date Analyzed: 01/11/23 21:37

Lab File ID: GA11018.D

GC Column: J&W DB WAX

ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	10.75	Baseline Smoothing	SWK1	01/11/23 22:02

8015C GLY

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.:

Instrument ID: CVGG2

Analysis Batch Number: 759183

Lab Sample ID: 580-122104-5

Client Sample ID: AF-RHMMW17-WQFB01-2301W1

Date Analyzed: 01/16/23 17:02

Lab File ID: GA16015.D

GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	01/16/23 17:48

Lab Sample ID: 580-122104-7

Client Sample ID: AF-RHMMW17D-WQEB01-2301W1

Date Analyzed: 01/16/23 17:49

Lab File ID: GA16017.D

GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	01/16/23 18:11

Lab Sample ID: 580-122104-8

Client Sample ID: AF-RHMMW03-WGN01LF-2301W2

Date Analyzed: 01/16/23 18:12

Lab File ID: GA16018.D

GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	01/16/23 18:48

Lab Sample ID: 580-122104-9

Client Sample ID: AF-RHMMW02-WGN01LF-2301W2

Date Analyzed: 01/16/23 18:36

Lab File ID: GA16019.D

GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	01/16/23 19:08

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG_Gly_CAL_00052	06/30/23		o2si, Lot 480919		(Purchased Reagent)		2,2'-Oxybisethanol	2000 ug/mL
							2-(2-Butoxyethoxy)ethanol	2000 ug/mL
							2-Butoxyethanol	2000 ug/mL
							4-Hydroxy-4-methyl-2-pentanone	2000 ug/mL
							Dipropylene Glycol Methyl Ether	2000 ug/mL
							Ethanol, 2-propoxy	2000 ug/mL
							Ethylene glycol	2000 ug/mL
							Propylene glycol	2000 ug/mL
							Tetraethylene Glycol	4000 ug/mL
							Triethylene Glycol	2000 ug/mL
SG_GLY_ITSD_00105	07/11/23		Agilent, Lot 0006720623		(Purchased Reagent)		n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00052	06/30/23		o2si, Lot 454407		(Purchased Reagent)		2-(2-Butoxyethoxy)ethanol	2000 ug/mL

Reagent

SG_Gly_CAL_00052



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ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

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Page 1 of 3

Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04	480919	≤ -10 °C	P/T Methanol		2-May-2024

Description:

ISO 17034 -Custom Volatiles Mix,105-12, 2000 & 4,000 mg/L, 1 mL

Container:

1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-butoxyethanol	111-76-2	99.6	311.9.2P	1986 ± 100 mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2P	2008 ± 100 mg/L
propyl cellosolve	2807-30-9	99.9	1570.7.2P	1980 ± 100 mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2P	2014 ± 100 mg/L
ethylene glycol	107-21-1	100	307.201.1P	1968 ± 99 mg/L
di(ethylene glycol)	111-46-6	99.5	309.7.2P	1994 ± 100 mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.2.1.1P	1974 ± 110 mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1P	1991 ± 110 mg/L
1,2-propanediol	57-55-6	99.5	306.9.3P	1998 ± 100 mg/L
tetraethylene glycol	112-60-7	98	3754.7.1P	3959 ± 200 mg/L

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

Page 2 of 3

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2, u_c = the combined uncertainty

$u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{ls}}^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:



Brian Stokes
3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman
14 -Jun-2022

Quality Control Chemist I

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Released By:



Susan Mathews
14 -Jun-2022

Quality Control Team Lead

Certificate of Analysis

Page 3 of 3

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2-May-2024

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 2-May-2024

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:



Brian Stokes

3-May-2022

Production Chemist I

Certified By:



Tyler Sherman

14-Jun-2022

Quality Control Chemist I

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Released By:



Susan Mathews

14-Jun-2022

Quality Control Team Lead

Reagent

SG_GLY_ISTD_00105

Reference Material Certificate
Product Information Sheet

Product Name: Custom Standard

Lot Number: 0006720623

Product Number: CUS-6046

Lot Issue Date: 15-Dec-2022

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Jan-2025

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
n-heptanol	5001	± 25 µg/mL	000111-70-6	RM04540

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was utilized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.



Trusted Answers

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

A handwritten signature in black ink that appears to read "M. Bourgeois".
Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TÜV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025

Reagent

SG_GlyICV_00052



ISO/IEC 17025 Accredited
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ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Page 1 of 3

Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04-SS	454407	≤ -10 °C	P/T Methanol		1-Jul-2023

Description:

ISO 17034 -Custom Volatiles Mix,105-12, Second Source, 2000 & 4,000 mg/L, 1 mL

Container:
1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-butoxyethanol	111-76-2	99.5	311.7.1.1S	1994 ± 100 mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2.1S	1992 ± 100 mg/L
2-propoxyethanol	2807-30-9	99.5	1570.7.1S	1998 ± 110 mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2.1S	1998 ± 100 mg/L
ethylene glycol	107-21-1	100	307.201.1.1S	2016 ± 100 mg/L
di(ethylene glycol)	111-46-6	99.9	309.7.1.1S	1998 ± 100 mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.3.1S	2010 ± 100 mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1.1S	2003 ± 110 mg/L
1,2-propanediol	57-55-6	99.6	306.370.1.1S	2004 ± 110 mg/L
tetraethylene glycol	112-60-7	98	3754.7.1.1S	4049 ± 200 mg/L

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

Page 2 of 10

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1-Jul-2023

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)

y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2, u_c = the combined uncertainty

$u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{ts}}^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:

Jared Ball

1-Jul-2021

Production Chemist I

Certified By:

Claire Desrochers

7-Jul-2021

Quality Control Chemist I

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Released By:

Susan Mathews

8-Jul-2021

Quality Control Team Lead

Certificate of Analysis

Page 3 of 3

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 1-Jul-2023

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:

Jared Ball

1 -Jul-2021

Production Chemist I

Certified By:

Claire Desrochers

7 -Jul-2021

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Released By:

Susan Mathews

8 -Jul-2021

Quality Control Team Lead

Method 8015C - DAI Glycols

**Glycols -Direct Injection (GC/FID) -
Method 8015C**

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GA16006.D

Lab ID: LCS 680-759183/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	20.0	19.0	95	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-122104-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GA16007.D

Lab ID: LCSD 680-759183/7 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD %	REC	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy)ethanol	20.0	18.8	94	1	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-122104-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GA16021.D

Lab ID: 580-122104-1 MS Client ID: AF-RHMW03-WGN01LF-2301W1 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	20.0	3.0 U	20.0	100	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-122104-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GA16022.D

Lab ID: 580-122104-1 MSD Client ID: AF-RHMW03-WGN01LF-2301W1 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD %	%	QC LIMITS		#
					REC	RPD	
2-(2-Butoxyethoxy)ethanol	20.0	19.1	96	4	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-122104-1
SDG No.: _____
Lab Sample ID: MB 680-759183/10
Matrix: Water Date Extracted: _____
Lab File ID: (1) GA16010.D Lab File ID: (2) _____
Date Analyzed: (1) 01/16/2023 15:06 Date Analyzed: (2) _____
Instrument ID: (1) CVGG2 Instrument ID: (2) _____
GC Column: (1) J&W DB WAX ID: 0.45 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-759183/6	01/16/2023 13:33	
	LCSD 680-759183/7	01/16/2023 13:56	
AF-RHMW03-WGN01LF-2301W1	580-122104-1	01/16/2023 15:29	
AF-RHMW02-WGN01LF-2301W1	580-122104-2	01/16/2023 15:52	
AF-RHMW225401-WGN01B-2301W1	580-122104-3	01/16/2023 16:16	
AF-RHMW17-WGN01LF-2301W1	580-122104-4	01/16/2023 16:39	
AF-RHMW17-WQFB01-2301W1	580-122104-5	01/16/2023 17:02	
AF-RHMW17D-WGN01LF-2301W1	580-122104-6	01/16/2023 17:26	
AF-RHMW17D-WQEB01-2301W1	580-122104-7	01/16/2023 17:49	
AF-RHMW03-WGN01LF-2301W2	580-122104-8	01/16/2023 18:12	
AF-RHMW02-WGN01LF-2301W2	580-122104-9	01/16/2023 18:36	
AF-RHMW03-WGN01LF-2301W1 MS	580-122104-1 MS	01/16/2023 19:22	
AF-RHMW03-WGN01LF-2301W1 MSD	580-122104-1 MSD	01/16/2023 19:45	

FORM VIII
GC SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-122104-1
 SDG No.: _____
 Sample No.: ICIS 680-758737/15 Date Analyzed: 01/11/2023 20:28
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
 Lab File ID (Standard): GA11015.D Heated Purge: (Y/N) N
 Calibration ID: 89052

	nHPA		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	4703166	4.50				
UPPER LIMIT	9406332	5.00				
LOWER LIMIT	2351583	4.00				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-758737/18		4949602	4.51			
CCV						

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-122104-1
SDG No.: _____
Sample No.: CCVIS 680-759183/5 Date Analyzed: 01/16/2023 13:10
Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
Lab File ID (Standard): GA16005.D Heated Purge: (Y/N) N
Calibration ID: 89052

	nHPA		#	RT #	#	RT #
	AREA #	RT #				
12/24 HOUR STD	4434601	4.51				
UPPER LIMIT	8869202	5.01				
LOWER LIMIT	2217301	4.01				
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 680-759183/6		4304414	4.50			
LCSD 680-759183/7		3977995	4.51			
MB 680-759183/10		5589716	4.51			
580-122104-1	AF-RHMW03-WGN01LF-2 301W1	4503343	4.50			
580-122104-2	AF-RHMW02-WGN01LF-2 301W1	3674669	4.50			
580-122104-3	AF-RHMW225401-WGN01 B-2301W1	4082060	4.50			
580-122104-4	AF-RHMW17-WGN01LF-2 301W1	4970952	4.50			
580-122104-5	AF-RHMW17-WQFB01-23 01W1	5232250	4.50			
580-122104-6	AF-RHMW17D-WGN01LF- 2301W1	4687104	4.50			
580-122104-7	AF-RHMW17D-WQEB01-2 301W1	4252353	4.50			
580-122104-8	AF-RHMW03-WGN01LF-2 301W2	5015276	4.50			
580-122104-9	AF-RHMW02-WGN01LF-2 301W2	5612880	4.50			
580-122104-1 MS	AF-RHMW03-WGN01LF-2 301W1 MS	4719187	4.50			
580-122104-1 MSD	AF-RHMW03-WGN01LF-2 301W1 MSD	4719324	4.50			
CCV 680-759183/24		5069907	4.50			

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW03-WGN01LF-2301W1 Lab Sample ID: 580-122104-1

Matrix: Water Lab File ID: GA16011.D

Analysis Method: 8015C GLY Date Collected: 01/05/2023 13:55

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 15:29

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16011.D
 Lims ID: 580-122104-C-1
 Client ID: AF-RHMW03-WGN01LF-2301W1
 Sample Type: Client
 Inject. Date: 16-Jan-2023 15:29:42 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-011 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:15:54 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 17:15:52

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.503 4.506 -0.003 4503343 50.0

8 2-(2-Butoxyethoxy)ethanol 7

8.757 8.758 -0.001 4210 0.0799 7

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ITSD_00105	Amount Added: 10.00	Units: uL
		Run Reagent

Report Date: 16-Jan-2023 17:16:07

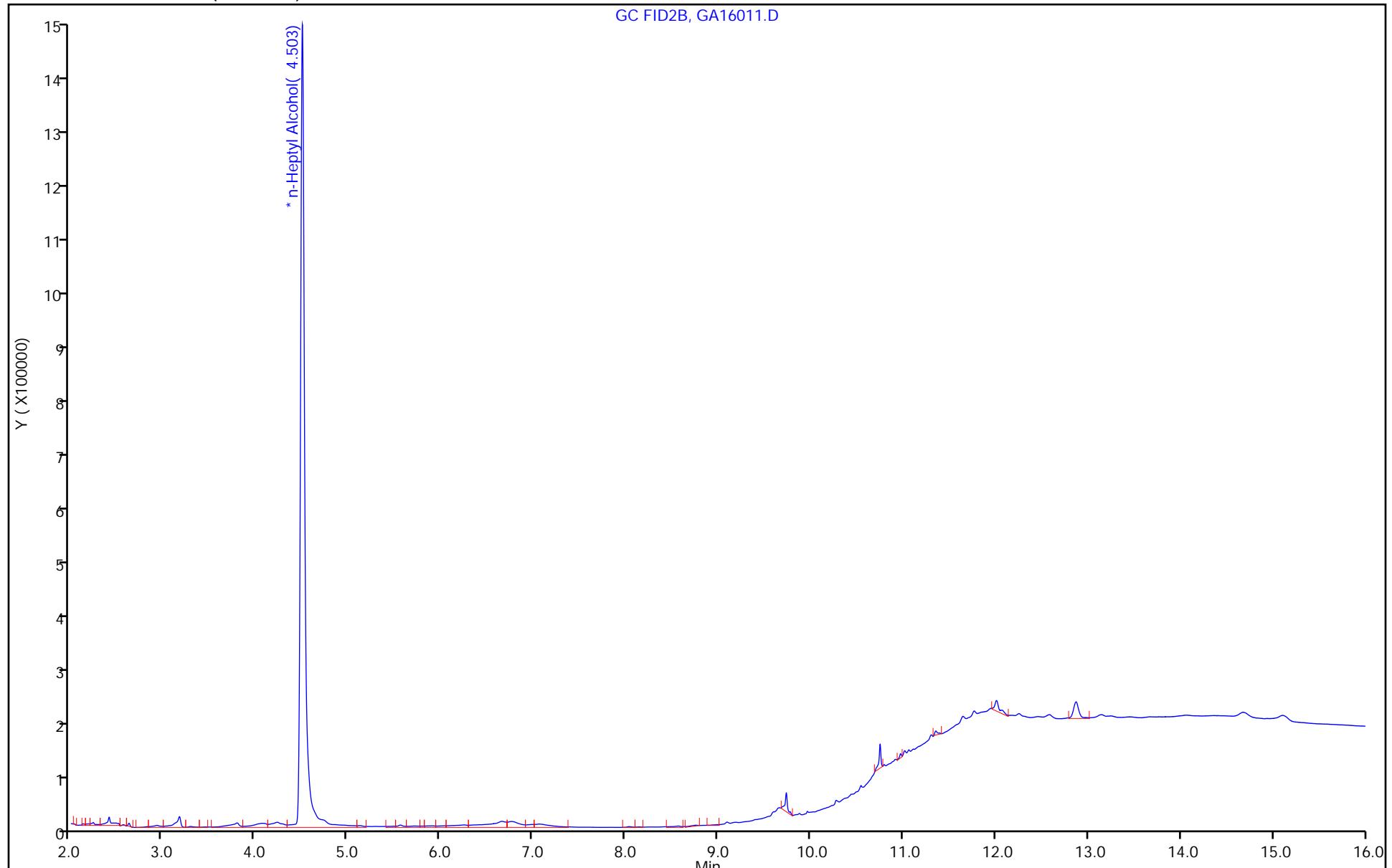
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16011.D
Injection Date: 16-Jan-2023 15:29:42 Instrument ID: CVGG2
Lims ID: 580-122104-C-1 Lab Sample ID: 680-122104-1
Client ID: AF-RHMW03-WGN01LF-2301W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 11

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW02-WGN01LF-2301W1 Lab Sample ID: 580-122104-2

Matrix: Water Lab File ID: GA16012.D

Analysis Method: 8015C GLY Date Collected: 01/05/2023 12:25

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 15:52

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16012.D
 Lims ID: 580-122104-C-2
 Client ID: AF-RHMW02-WGN01LF-2301W1
 Sample Type: Client
 Inject. Date: 16-Jan-2023 15:52:56 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-012 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:15:54 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.504	4.506	-0.002	3674669	50.0	
8	2-(2-Butoxyethoxy)ethanol				7
8.767	8.758	0.009	3963	0.0922	7

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ITSD_00105	Amount Added: 10.00	Units: uL	Run Reagent
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Report Date: 16-Jan-2023 17:16:08

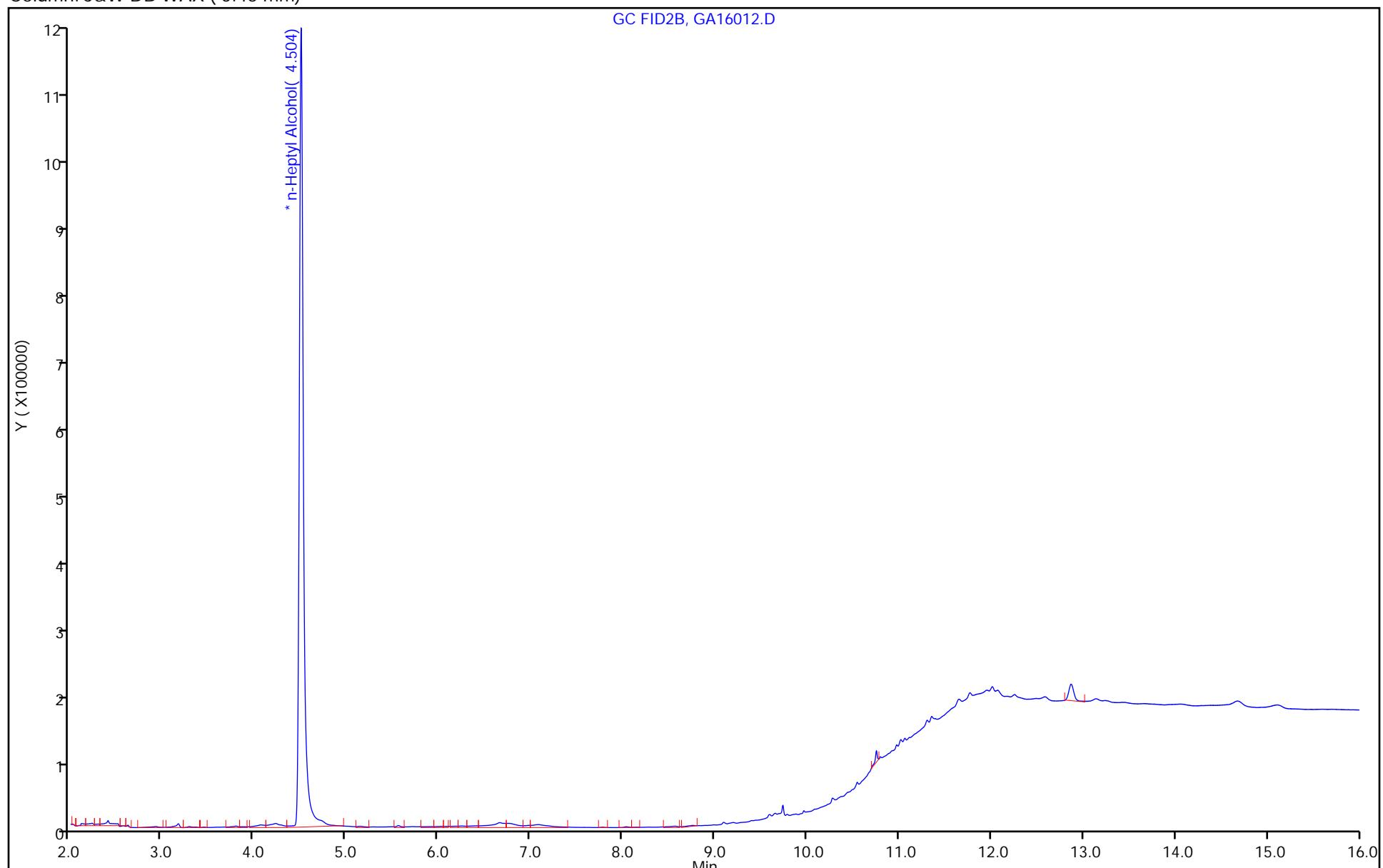
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16012.D
Injection Date: 16-Jan-2023 15:52:56 Instrument ID: CVGG2
Lims ID: 580-122104-C-2 Lab Sample ID: 680-122104-2
Client ID: AF-RHMW02-WGN01LF-2301W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 12

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW225401-WGN01B-2301
W1

Lab Sample ID: 580-122104-3

Matrix: Water

Lab File ID: GA16013.D

Analysis Method: 8015C GLY

Date Collected: 01/05/2023 08:55

Extraction Method: _____

Date Extracted: _____

Sample wt/vol: 1 (mL)

Date Analyzed: 01/16/2023 16:16

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 1 (uL)

GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183

Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16013.D
 Lims ID: 580-122104-C-3
 Client ID: AF-RHMW225401-WGN01B-2301W1
 Sample Type: Client
 Inject. Date: 16-Jan-2023 16:16:17 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-013
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:15:54 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol
 4.502 4.506 -0.004 4082060 50.0
 8 2-(2-Butoxyethoxy)ethanol 7
 8.758 8.758 0.000 1529 0.0320 7
 LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent
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Report Date: 16-Jan-2023 17:16:08

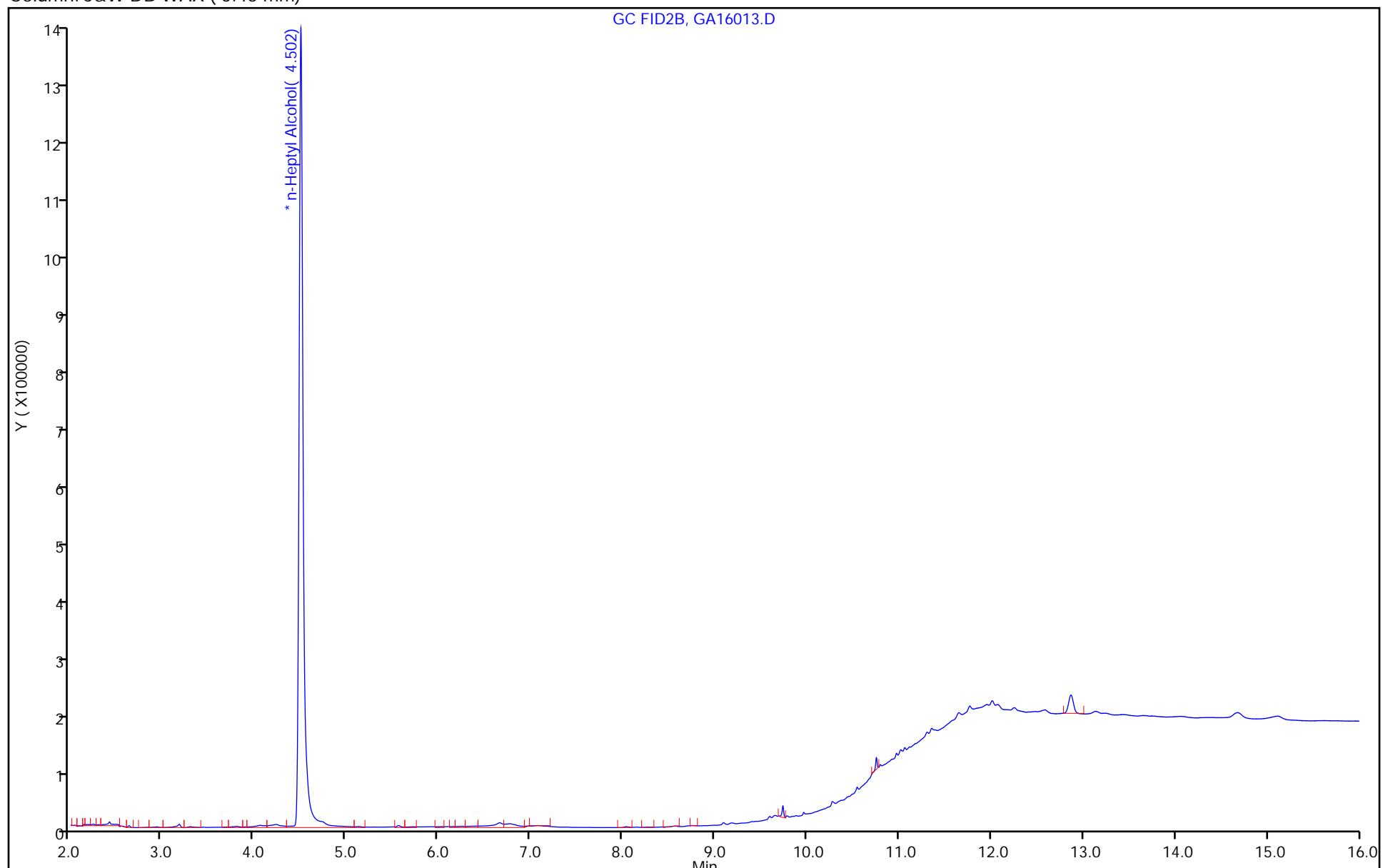
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16013.D
Injection Date: 16-Jan-2023 16:16:17 Instrument ID: CVGG2
Lims ID: 580-122104-C-3 Lab Sample ID: 680-122104-3
Client ID: AF-RHMW225401-WGN01B-2301W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 13

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW17-WGN01LF-2301W1 Lab Sample ID: 580-122104-4

Matrix: Water Lab File ID: GA16014.D

Analysis Method: 8015C GLY Date Collected: 01/06/2023 13:20

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 16:39

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16014.D
 Lims ID: 580-122104-C-4
 Client ID: AF-RHMW17-WGN01LF-2301W1
 Sample Type: Client
 Inject. Date: 16-Jan-2023 16:39:33 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-014
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:15:54 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.499	4.506	-0.007	4970952	50.0	
8.2	8.758	-0.001	2463	0.0424	7

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ITSD_00105	Amount Added: 10.00	Units: uL	Run Reagent
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Report Date: 16-Jan-2023 17:16:09

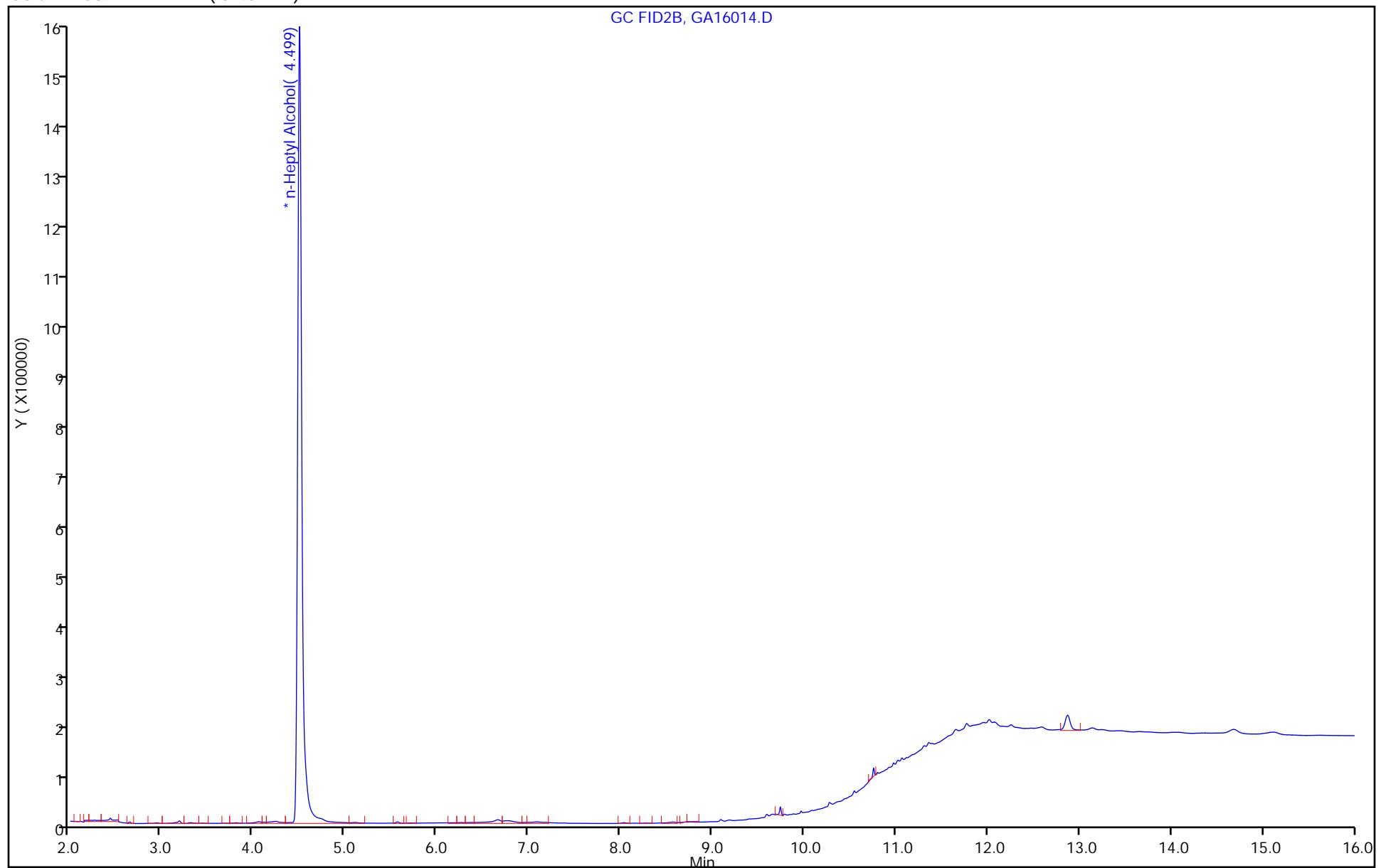
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16014.D
Injection Date: 16-Jan-2023 16:39:33 Instrument ID: CVGG2
Lims ID: 580-122104-C-4 Lab Sample ID: 680-122104-4
Client ID: AF-RHMW17-WGN01LF-2301W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 14

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW17-WQFB01-2301W1 Lab Sample ID: 580-122104-5

Matrix: Water Lab File ID: GA16015.D

Analysis Method: 8015C GLY Date Collected: 01/06/2023 15:30

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 17:02

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16015.D
 Lims ID: 580-122104-C-5
 Client ID: AF-RHMW17-WQFB01-2301W1
 Sample Type: Client
 Inject. Date: 16-Jan-2023 17:02:49 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-015 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:48:08 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 17:48:08

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.499 4.506 -0.007 5232250 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jan-2023 17:48:08

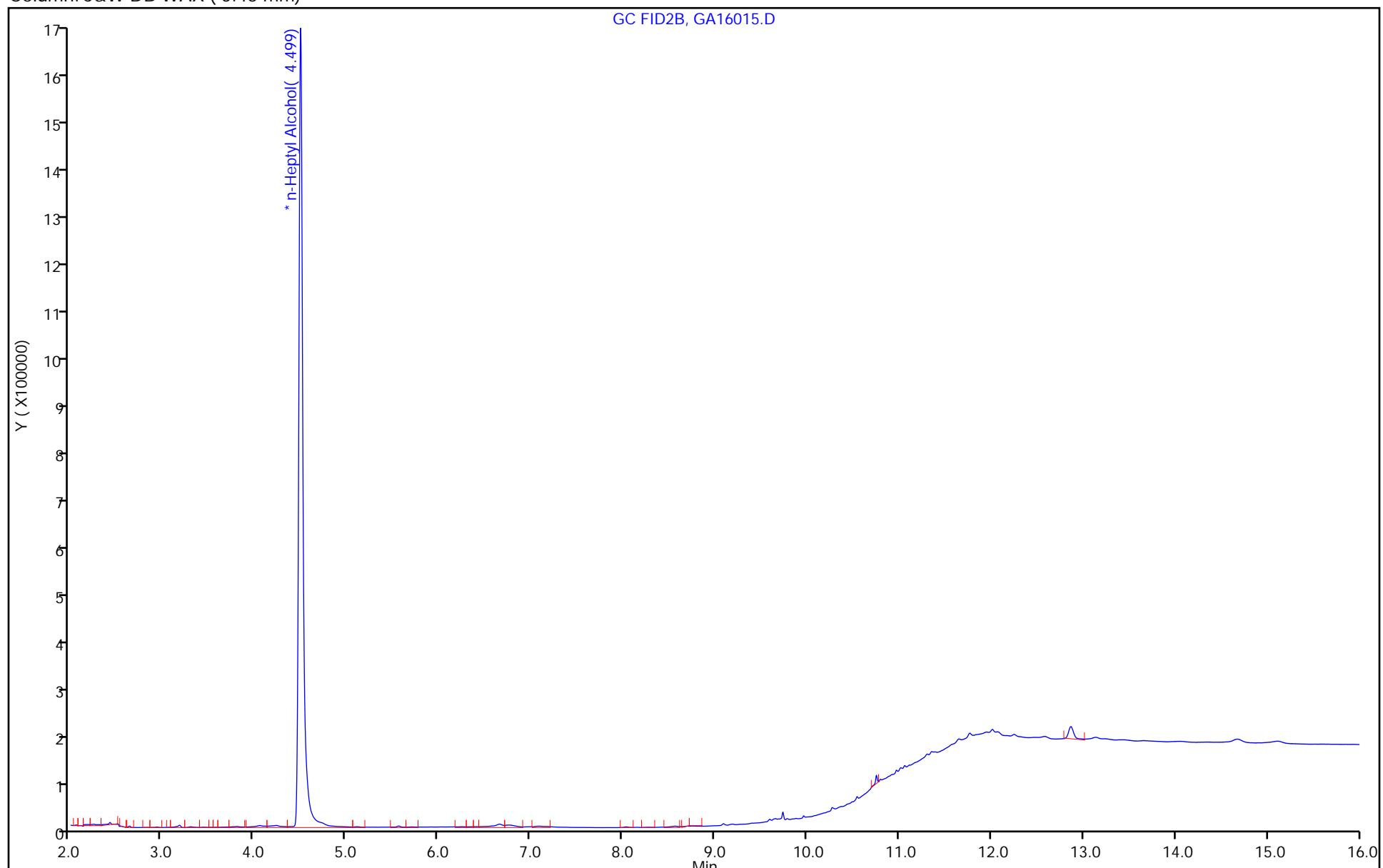
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16015.D
Injection Date: 16-Jan-2023 17:02:49 Instrument ID: CVGG2
Lims ID: 580-122104-C-5 Lab Sample ID: 680-122104-5
Client ID: AF-RHMW17-WQFB01-2301W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 15

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW17D-WGN01LF-2301W1 Lab Sample ID: 580-122104-6

Matrix: Water Lab File ID: GA16016.D

Analysis Method: 8015C GLY Date Collected: 01/06/2023 12:05

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 17:26

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____ Units: mg/L

Analysis Batch No.: 759183

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16016.D
 Lims ID: 580-122104-C-6
 Client ID: AF-RHMW17D-WGN01LF-2301W1
 Sample Type: Client
 Inject. Date: 16-Jan-2023 17:26:14 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-016 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:48:08 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 17:51:26

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.503 4.506 -0.003 4687104 50.0

8 2-(2-Butoxyethoxy)ethanol 7

8.760 8.758 0.002 4213 0.0769 7

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG,GLY,ISTD,00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jan-2023 17:51:26

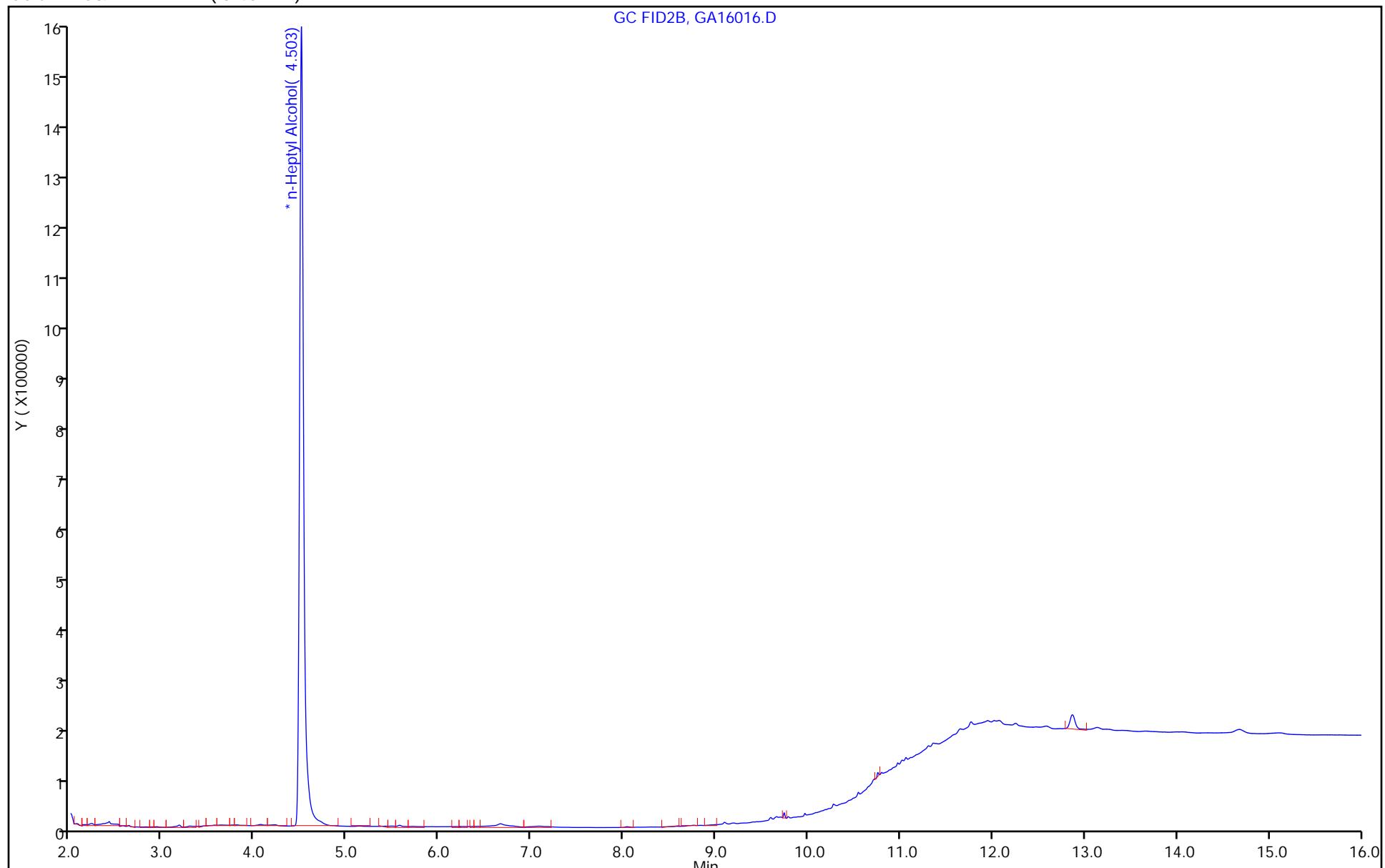
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16016.D
Injection Date: 16-Jan-2023 17:26:14 Instrument ID: CVGG2
Lims ID: 580-122104-C-6 Lab Sample ID: 680-122104-6
Client ID: AF-RHMW17D-WGN01LF-2301W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 16

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW17D-WQEB01-2301W1 Lab Sample ID: 580-122104-7

Matrix: Water Lab File ID: GA16017.D

Analysis Method: 8015C GLY Date Collected: 01/06/2023 15:25

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 17:49

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16017.D
 Lims ID: 580-122104-C-7
 Client ID: AF-RHMW17D-WQEB01-2301W1
 Sample Type: Client
 Inject. Date: 16-Jan-2023 17:49:29 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-017 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 18:11:21 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 18:11:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.498 4.506 -0.008 4252353 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jan-2023 18:11:21

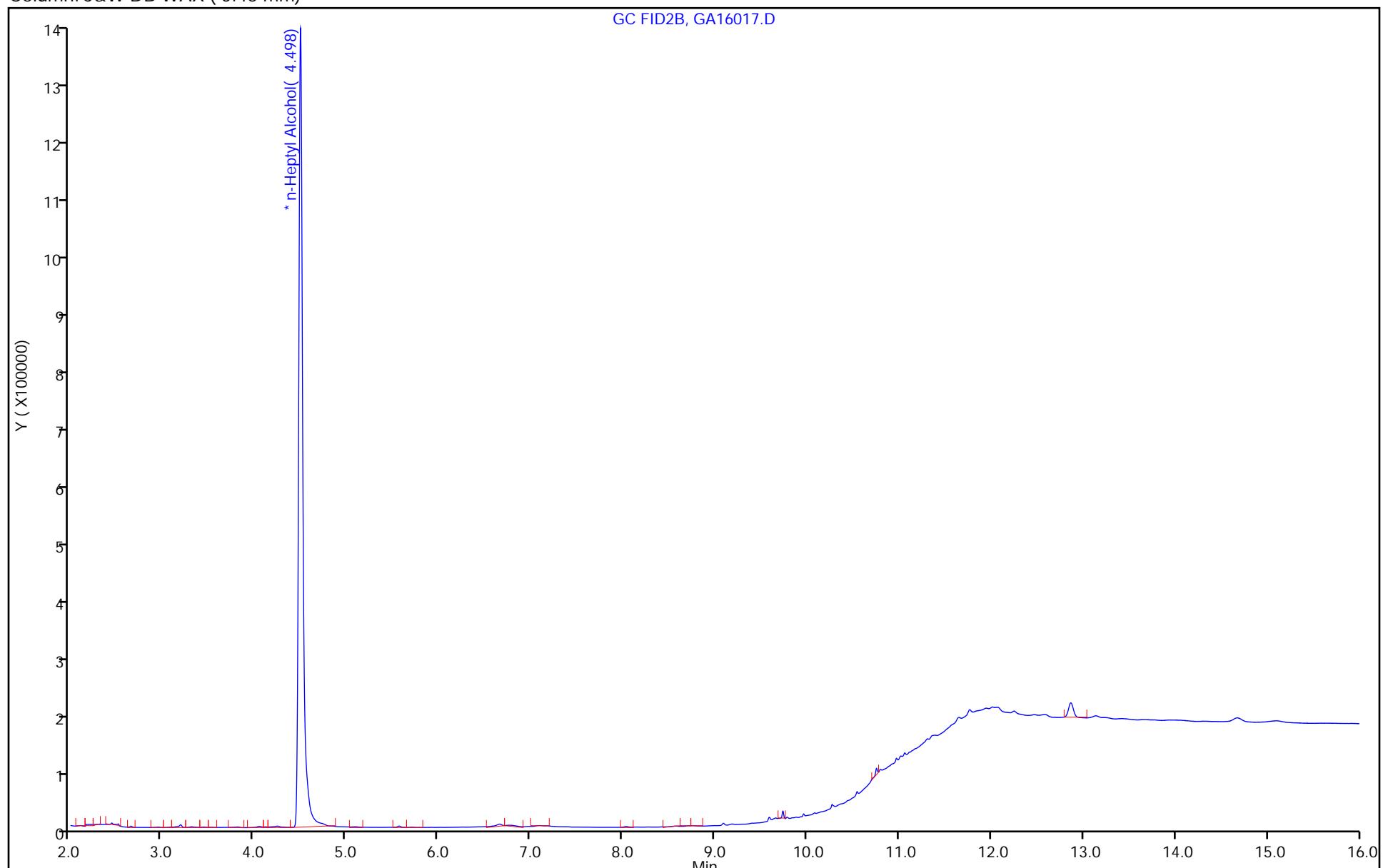
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16017.D
Injection Date: 16-Jan-2023 17:49:29 Instrument ID: CVGG2
Lims ID: 580-122104-C-7 Lab Sample ID: 680-122104-7
Client ID: AF-RHMW17D-WQEB01-2301W1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 17

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW03-WGN01LF-2301W2

Lab Sample ID: 580-122104-8

Matrix: Water

Lab File ID: GA16018.D

Analysis Method: 8015C GLY

Date Collected: 01/09/2023 14:10

Extraction Method: _____

Date Extracted: _____

Sample wt/vol: 1 (mL)

Date Analyzed: 01/16/2023 18:12

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 1 (uL)

GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183

Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16018.D
 Lims ID: 580-122104-C-8
 Client ID: AF-RHMW03-WGN01LF-2301W2
 Sample Type: Client
 Inject. Date: 16-Jan-2023 18:12:45 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-018 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 18:48:27 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 18:48:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.499 4.506 -0.007 5015276 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jan-2023 18:48:27

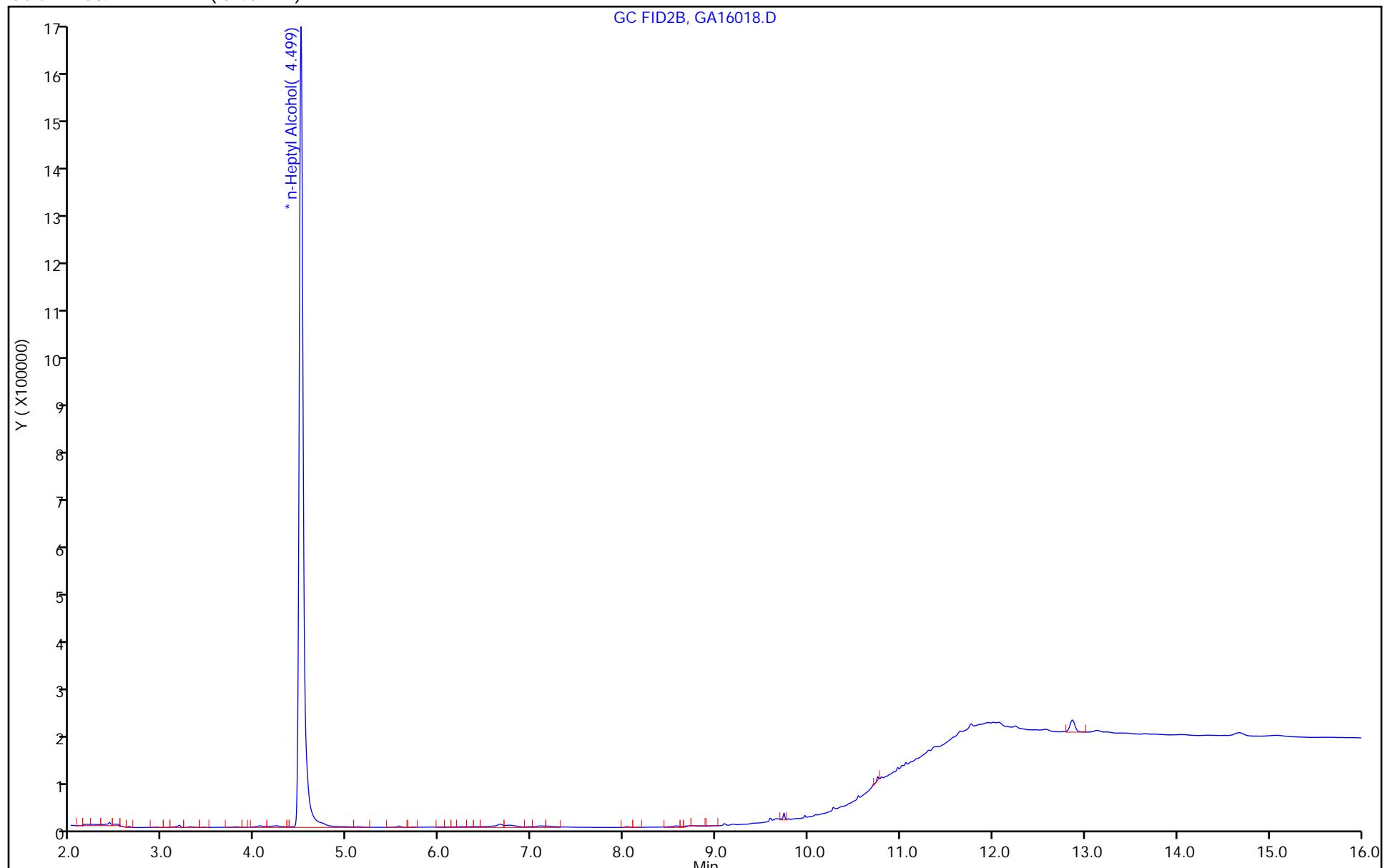
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16018.D
Injection Date: 16-Jan-2023 18:12:45 Instrument ID: CVGG2
Lims ID: 580-122104-C-8 Lab Sample ID: 680-122104-8
Client ID: AF-RHMW03-WGN01LF-2301W2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 18

ALS Bottle#: 0



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW02-WGN01LF-2301W2 Lab Sample ID: 580-122104-9

Matrix: Water Lab File ID: GA16019.D

Analysis Method: 8015C GLY Date Collected: 01/09/2023 12:40

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 18:36

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16019.D
 Lims ID: 580-122104-C-9
 Client ID: AF-RHMW02-WGN01LF-2301W2
 Sample Type: Client
 Inject. Date: 16-Jan-2023 18:36:04 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-019 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 19:09:04 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 19:09:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

4.501 4.506 -0.005 5612880 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jan-2023 19:09:04

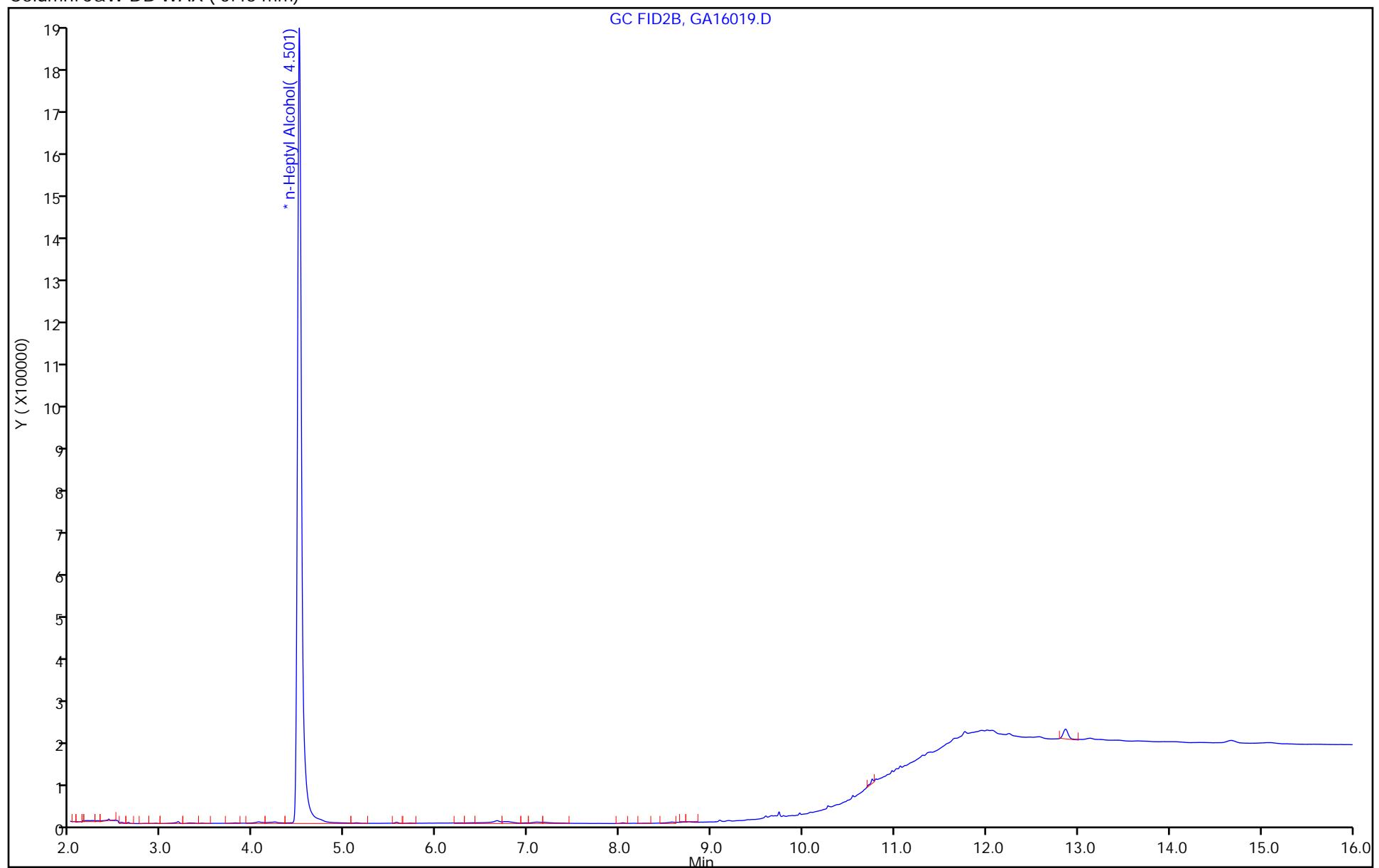
Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16019.D
Injection Date: 16-Jan-2023 18:36:04 Instrument ID: CVGG2
Lims ID: 580-122104-C-9 Lab Sample ID: 680-122104-9
Client ID: AF-RHMW02-WGN01LF-2301W2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Operator ID:
Worklist Smp#: 19

ALS Bottle#: 0



FORM VI
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Savannah Job No.: 580-122104-1 Analy Batch No.: 758737
SDG No.: _____
Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45(mm) Heated Purge: (Y/N) N
Calibration Start Date: 01/11/2023 19:18 Calibration End Date: 01/11/2023 21:14 Calibration ID: 89052

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-758737/17	GA11017.D
Level 2	IC 680-758737/16	GA11016.D
Level 3	ICIS 680-758737/15	GA11015.D
Level 4	IC 680-758737/14	GA11014.D
Level 5	IC 680-758737/13	GA11013.D
Level 6	IC 680-758737/12	GA11012.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol, 2-propoxy	0.8508 0.7063	0.7418	0.7444	0.6966	0.6744	Ave		0.735 7				8.5	20.0				
4-Hydroxy-4-methyl-2-pentanone	0.8359 0.7007	0.7238	0.7293	0.6848	0.6479	Ave		0.720 4				8.9	20.0				
2-Butoxyethanol	0.9281 0.7580	0.8154	0.8079	0.7506	0.7326	Ave		0.798 8				8.9	20.0				
Dipropylene Glycol Methyl Ether	0.0293 0.0530	0.0542	0.0552	0.0522	0.0494	Qua	0.007 3	0.049 6	0.0000240					0.9970		0.9900	
Propylene glycol	0.2562 0.2577	0.2682	0.2578	0.2486	0.2415	Ave		0.255 0				3.6	20.0				
Ethylene glycol	0.2512 0.1973	0.2207	0.2010	0.1950	0.1860	Ave		0.208 6				11.4	20.0				
2-(2-Butoxyethoxy)ethanol	0.6768 0.5727	0.5884	0.5906	0.5554	0.5248	Ave		0.584 8				8.8	20.0				
2,2'-Oxybisethanol	0.2187 0.1909	0.1993	0.1896	0.1853	0.1774	Ave		0.193 5				7.4	20.0				
Triethylene Glycol	0.2060 0.1885	0.1866	0.1765	0.1788	0.1731	Ave		0.184 9				6.4	20.0				
Tetraethylene Glycol	0.2216 0.2007	0.2051	0.1991	0.1929	0.1852	Ave		0.200 8				6.1	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Savannah Job No.: 580-122104-1 Analy Batch No.: 758737

SDG No.: _____

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 19:18 Calibration End Date: 01/11/2023 21:14 Calibration ID: 89052

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-758737/17	GA11017.D
Level 2	IC 680-758737/16	GA11016.D
Level 3	ICIS 680-758737/15	GA11015.D
Level 4	IC 680-758737/14	GA11014.D
Level 5	IC 680-758737/13	GA11013.D
Level 6	IC 680-758737/12	GA11012.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethanol, 2-propoxy	nHPA	Ave	412485 6162790	729297	1400382	3185611	4944627	5.00 100	10.0	20.0	50.0	80.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Ave	405244 6113873	711603	1371968	3131890	4750126	5.00 100	10.0	20.0	50.0	80.0
2-Butoxyethanol	nHPA	Ave	449925 6613883	801660	1519939	3432653	5370855	5.00 100	10.0	20.0	50.0	80.0
Dipropylene Glycol Methyl Ether	nHPA	Qua	14210 462643	53252	103939	238530	362014	5.00 100	10.0	20.0	50.0	80.0
Propylene glycol	nHPA	Ave	124185 2248919	263729	485048	1136780	1770636	5.00 100	10.0	20.0	50.0	80.0
Ethylene glycol	nHPA	Ave	121803 1721527	217023	378219	891870	1363409	5.00 100	10.0	20.0	50.0	80.0
2-(2-Butoxyethoxy)ethanol	nHPA	Ave	328114 4997206	578471	1111022	2540215	3847420	5.00 100	10.0	20.0	50.0	80.0
2,2'-Oxybisethanol	nHPA	Ave	106006 1665230	195926	356750	847316	1300421	5.00 100	10.0	20.0	50.0	80.0
Triethylene Glycol	nHPA	Ave	99849 1645092	183444	332049	817829	1268874	5.00 100	10.0	20.0	50.0	80.0
Tetraethylene Glycol	nHPA	Ave	214886 3503102	403210	748973	1764754	2715743	10.0 200	20.0	40.0	100	160

Curve Type Legend

Ave = Average ISTD
Qua = Quadratic ISTD

FORM VI
GC SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Savannah Job No.: 580-122104-1 Analy Batch No.: 758737

SDG No.: _____

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2023 19:18 Calibration End Date: 01/11/2023 21:14 Calibration ID: 89052

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-758737/17	GA11017.D
Level 2	IC 680-758737/16	GA11016.D
Level 3	ICIS 680-758737/15	GA11015.D
Level 4	IC 680-758737/14	GA11014.D
Level 5	IC 680-758737/13	GA11013.D
Level 6	IC 680-758737/12	GA11012.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethanol, 2-propoxy	15.6	0.8	1.2	-5.3	-8.3	-4.0	20	20	20	20	20	20
4-Hydroxy-4-methyl-2-pentanone	16.0	0.5	1.2	-4.9	-10.1	-2.7	20	20	20	20	20	20
2-Butoxyethanol	16.2	2.1	1.1	-6.0	-8.3	-5.1	20	20	20	20	20	20
Propylene glycol	0.4	5.2	1.1	-2.5	-5.3	1.1	20	20	20	20	20	20
Ethylene glycol	20.5 *	5.8	-3.6	-6.5	-10.8	-5.4	20	20	20	20	20	20
2-(2-Butoxyethoxy)ethanol	15.7	0.6	1.0	-5.0	-10.3	-2.1	20	20	20	20	20	20
2,2'-Oxybisethanol	13.0	3.0	-2.0	-4.3	-8.3	-1.4	20	20	20	20	20	20
Triethylene Glycol	11.4	0.9	-4.5	-3.3	-6.4	2.0	20	20	20	20	20	20
Tetraethylene Glycol	10.4	2.1	-0.9	-3.9	-7.8	0.0	20	20	20	20	20	20

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Lims ID: ic g6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Jan-2023 19:18:12 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083226-012
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 12-Jan-2023 12:14:36 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1634

First Level Reviewer: SWK1 Date: 11-Jan-2023 19:40:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Ethanol, 2-propoxy						a
3.118	3.121	-0.003	6162790	100.0	96.0	a
2 4-Hydroxy-4-methyl-2-pentanone						a
3.718	3.724	-0.006	6113873	100.0	97.3	a
3 2-Butoxyethanol						a
4.031	4.031	0.000	6613883	100.0	94.9	a
* 4 n-Heptyl Alcohol						a
4.507	4.504	0.003	4362652	50.0	50.0	a
5 Dipropylene Glycol Methyl Ether						a
5.466	5.469	-0.003	462643	100.0	101.7	a
6 Propylene glycol						a
6.337	6.341	-0.004	2248919	100.0	101.1	a
7 Ethylene glycol						a
6.777	6.782	-0.005	1721527	100.0	94.6	a
8 2-(2-Butoxyethoxy)ethanol						a
8.758	8.758	0.000	4997206	100.0	97.9	a
9 2,2'-Oxybisethanol						a
9.738	9.737	0.001	1665230	100.0	98.6	a
10 Triethylene Glycol						Ma
10.754	10.753	0.001	1645092	100.0	102.0	M
11 Tetraethylene Glycol						a
12.017	12.016	0.001	3503102	200.0	200.0	a

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG_Gly_CAL_00052

Amount Added: 50.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

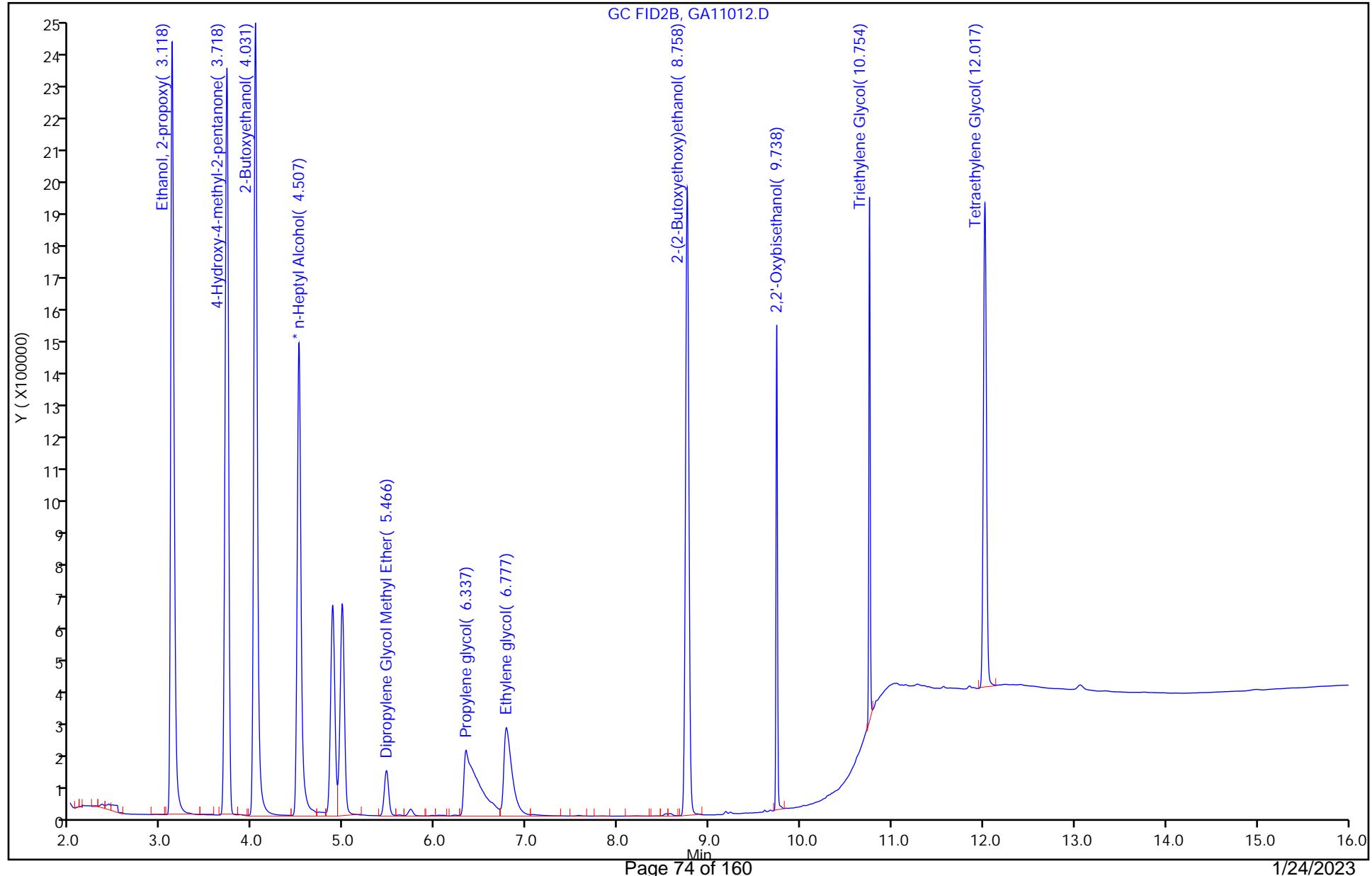
Report Date: 12-Jan-2023 12:14:37

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230111-83226.b\\GA11012.D
Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
Lims ID: ic g6 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 12



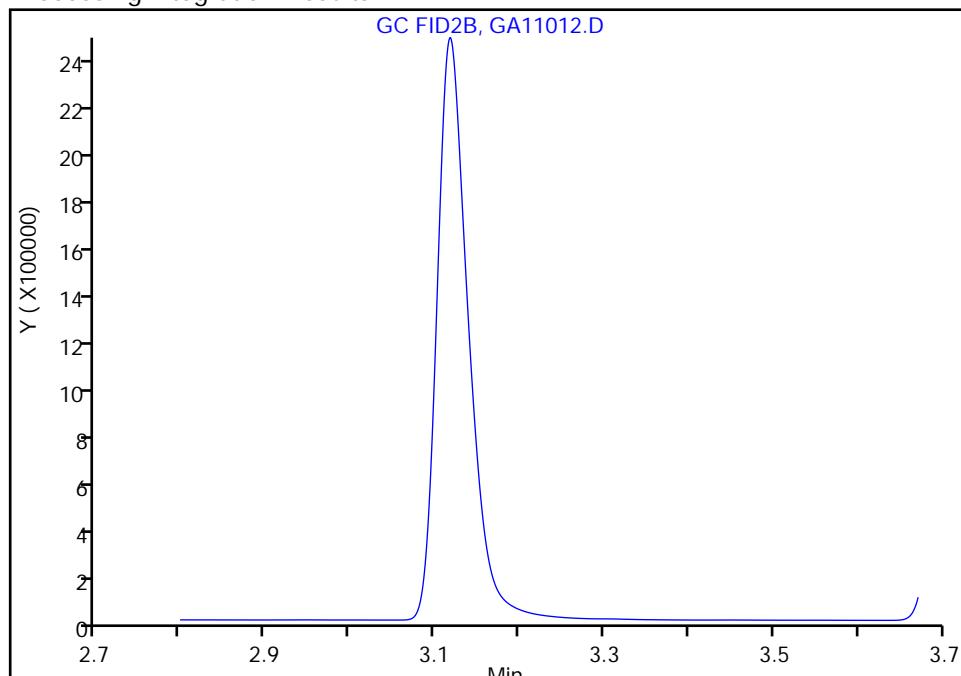
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

1 Ethanol, 2-propoxy, CAS: 2807-30-9
 Signal: 1

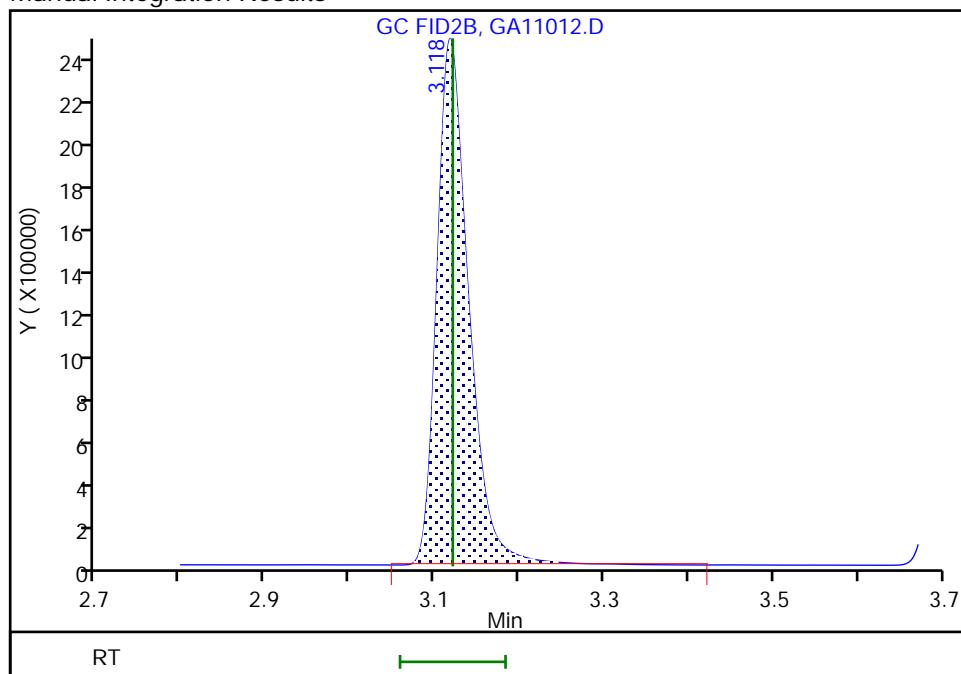
Not Detected
 Expected RT: 3.12

Processing Integration Results



RT: 3.12
 Area: 6162790
 Amount: 96.002889
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:16

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

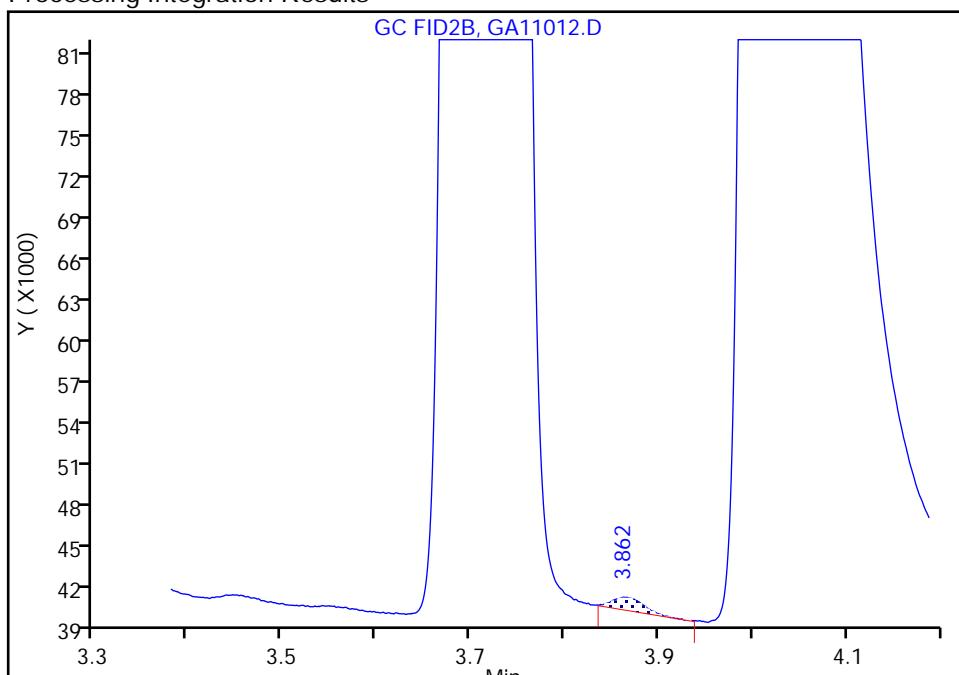
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

2 4-Hydroxy-4-methyl-2-pentanone, CAS: 123-42-2
Signal: 1

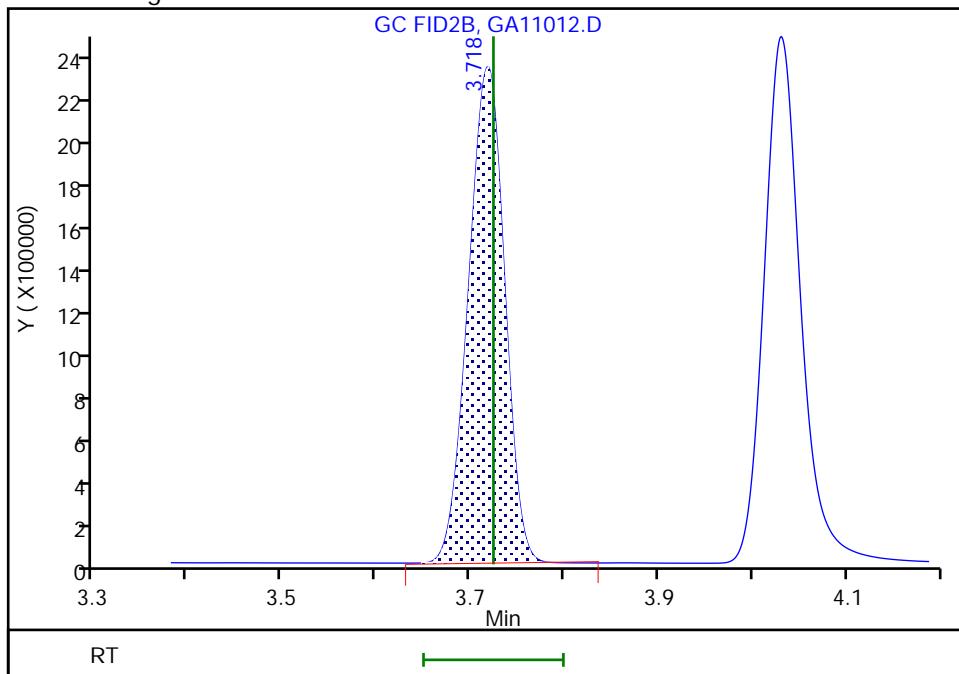
RT: 3.86
 Area: 2360
 Amount: 100.0000
 Amount Units: ug/ml

Processing Integration Results



RT: 3.72
 Area: 6113873
 Amount: 97.266243
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:21

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Savannah

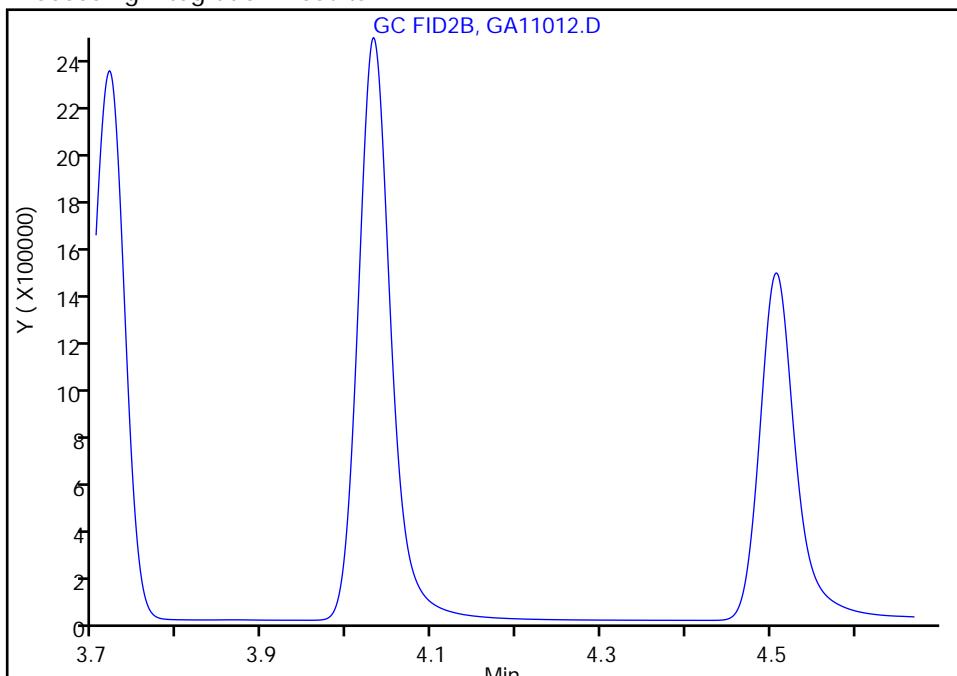
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 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

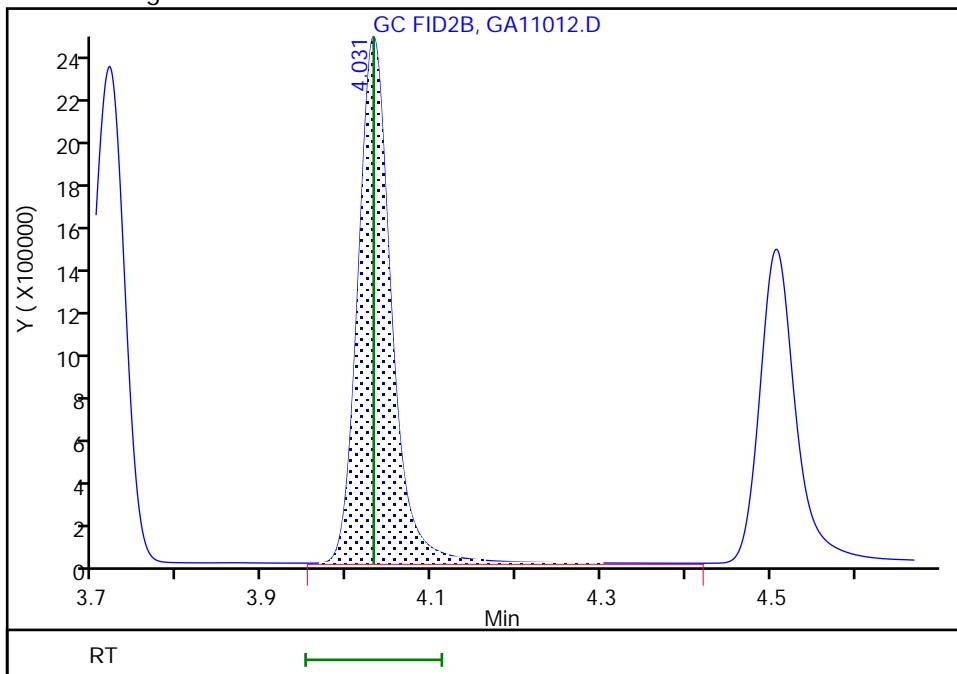
Not Detected
 Expected RT: 4.03

Processing Integration Results



RT: 4.03
 Area: 6613883
 Amount: 94.898661
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:25

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Savannah

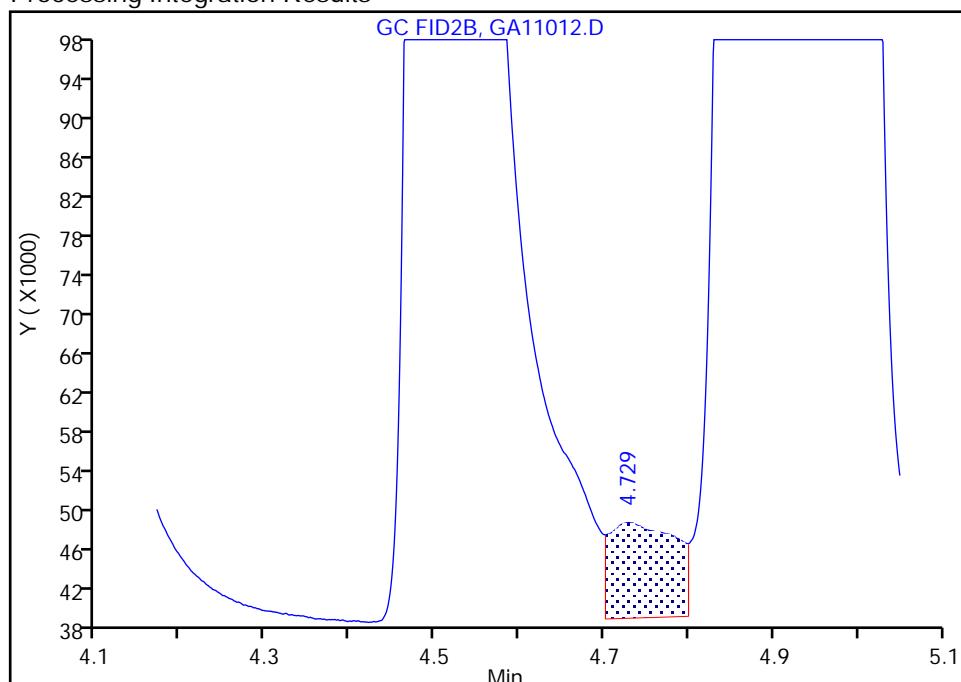
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

*** 4 n-Heptyl Alcohol, CAS: 111-70-6**

Signal: 1

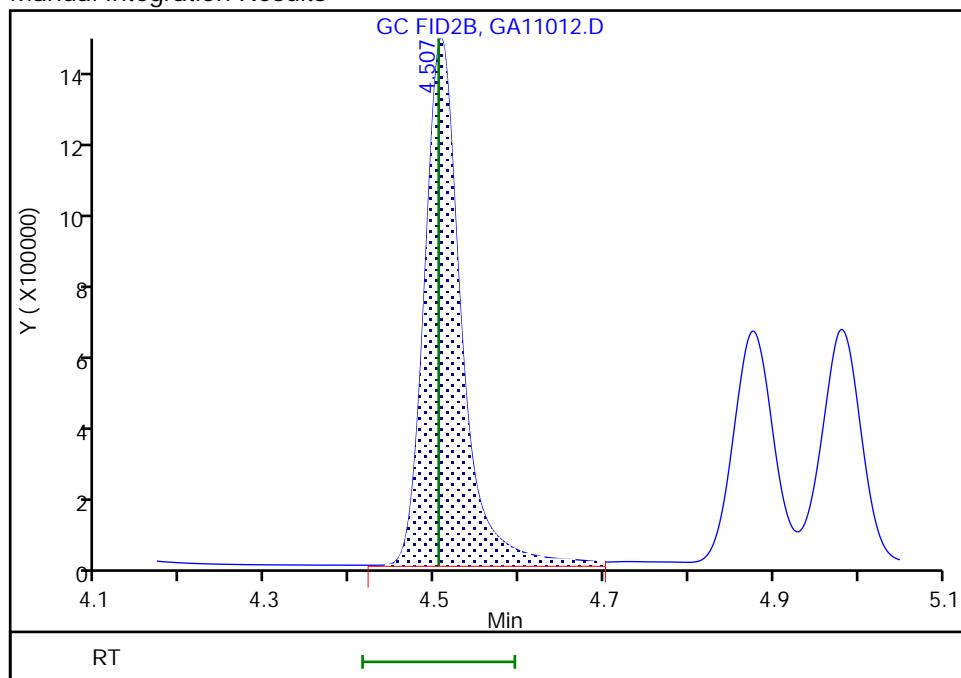
RT: 4.73
 Area: 51629
 Amount: 50.000000
 Amount Units: ug/ml

Processing Integration Results



RT: 4.51
 Area: 4362652
 Amount: 50.000000
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:29

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

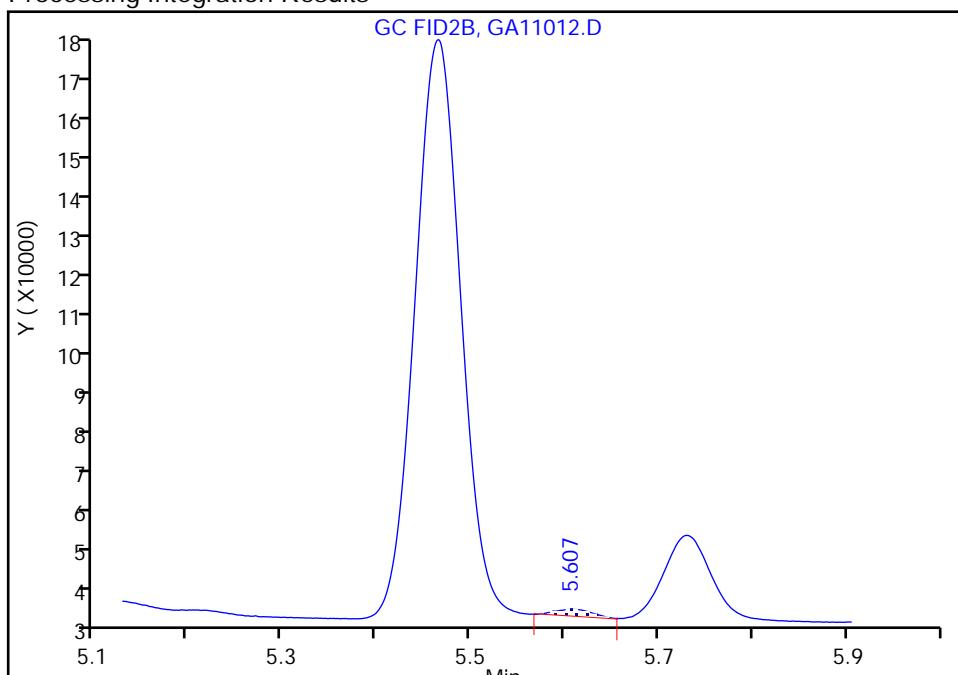
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

5 Dipropylene Glycol Methyl Ether, CAS: 34590-94-8
 Signal: 1

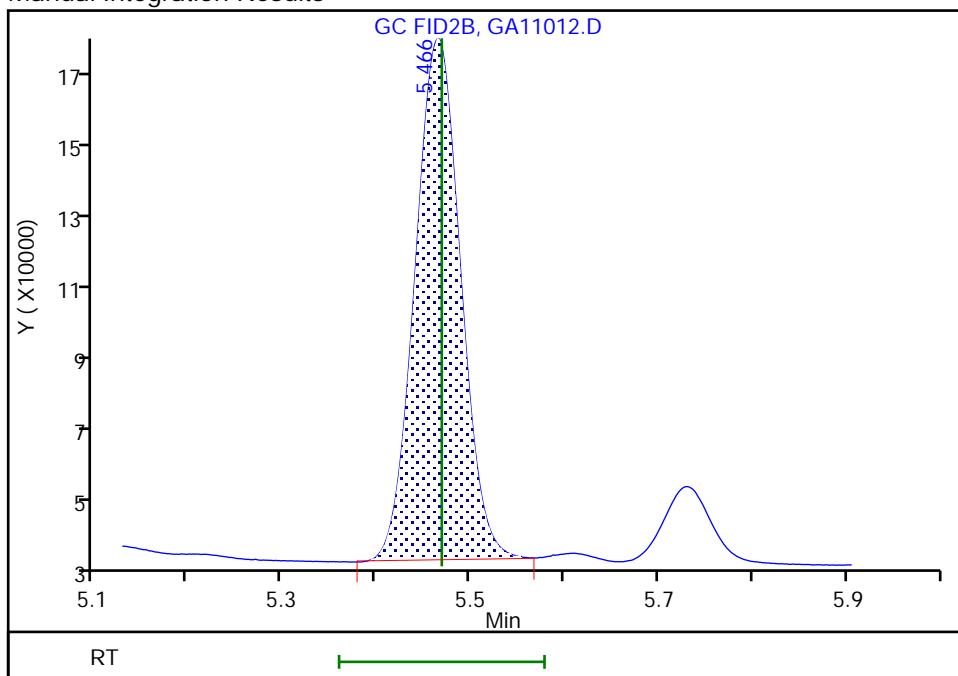
RT: 5.61
 Area: 4631
 Amount: 100.0000
 Amount Units: ug/ml

Processing Integration Results



RT: 5.47
 Area: 462643
 Amount: 101.7486
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:33

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Savannah

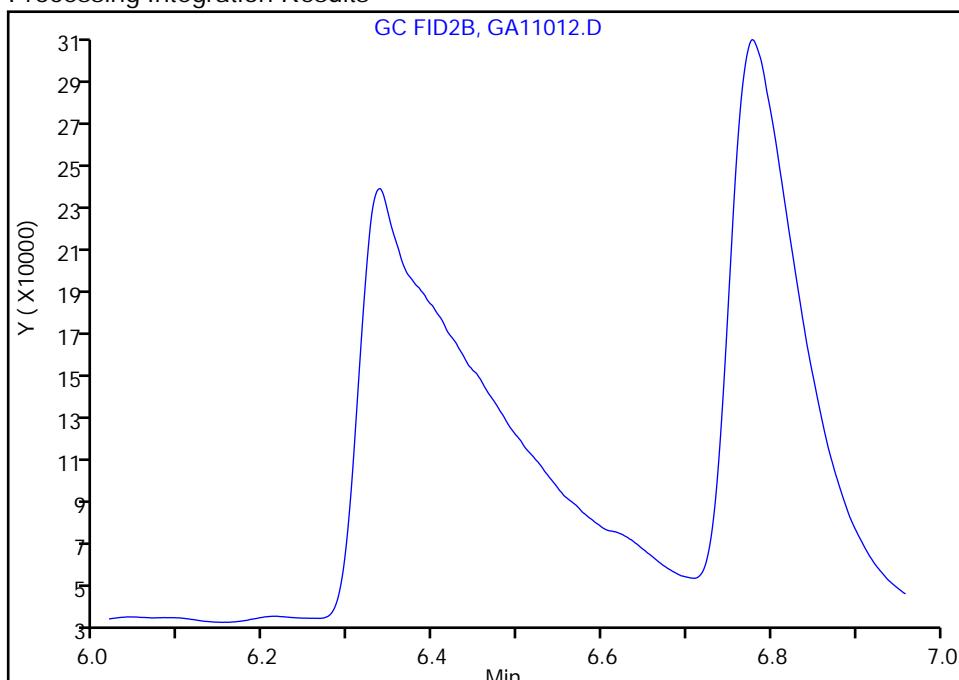
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

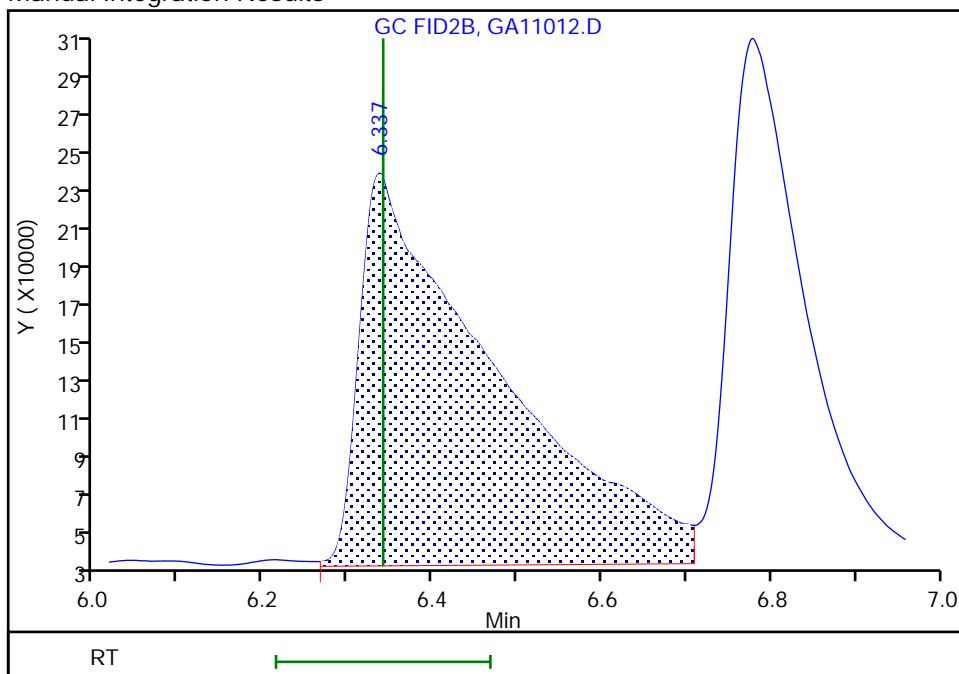
Not Detected
 Expected RT: 6.34

Processing Integration Results



RT: 6.34
 Area: 2248919
 Amount: 101.0732
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:36

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Savannah

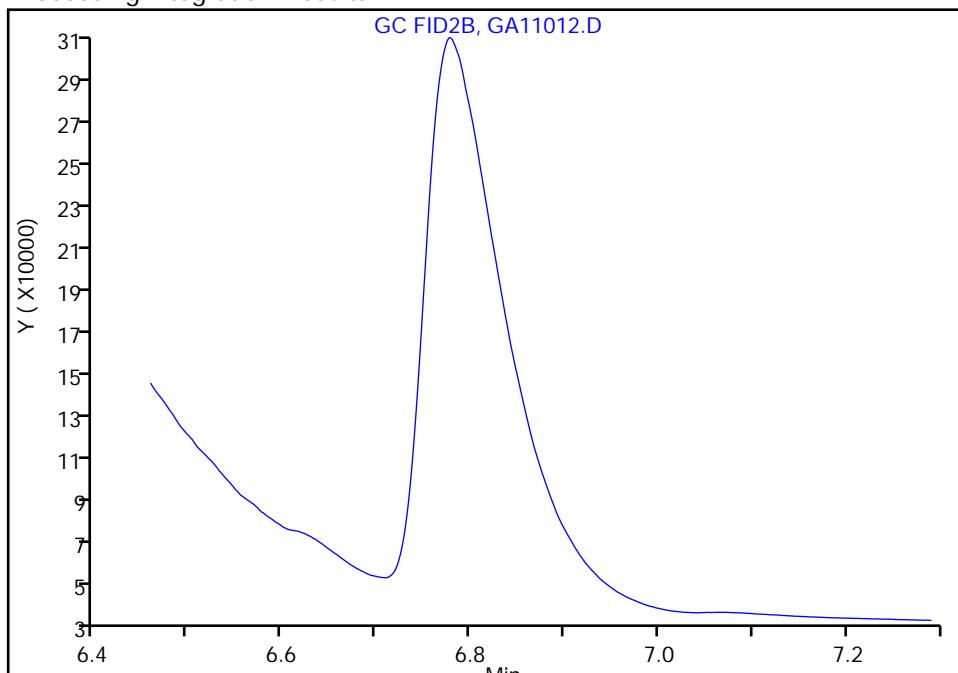
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

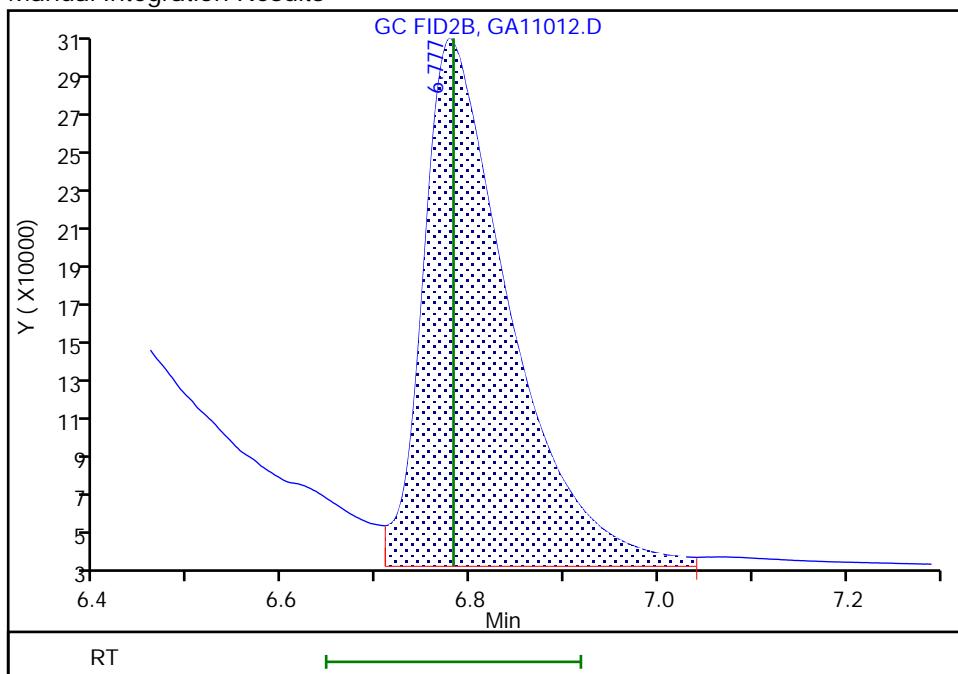
Not Detected
 Expected RT: 6.78

Processing Integration Results



RT: 6.78
 Area: 1721527
 Amount: 94.605933
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:39

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

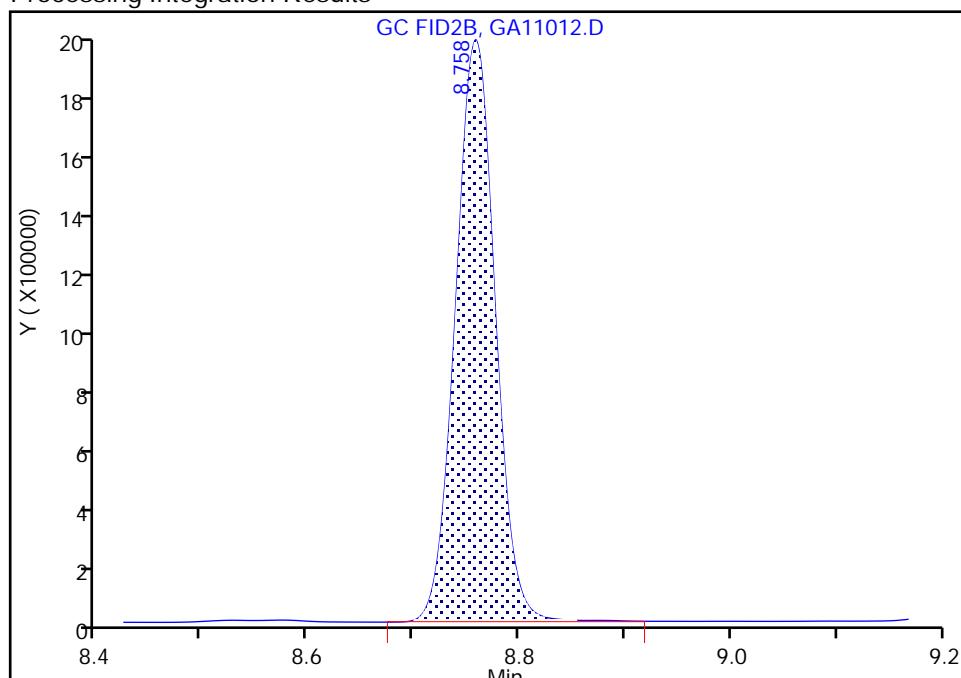
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
 Signal: 1

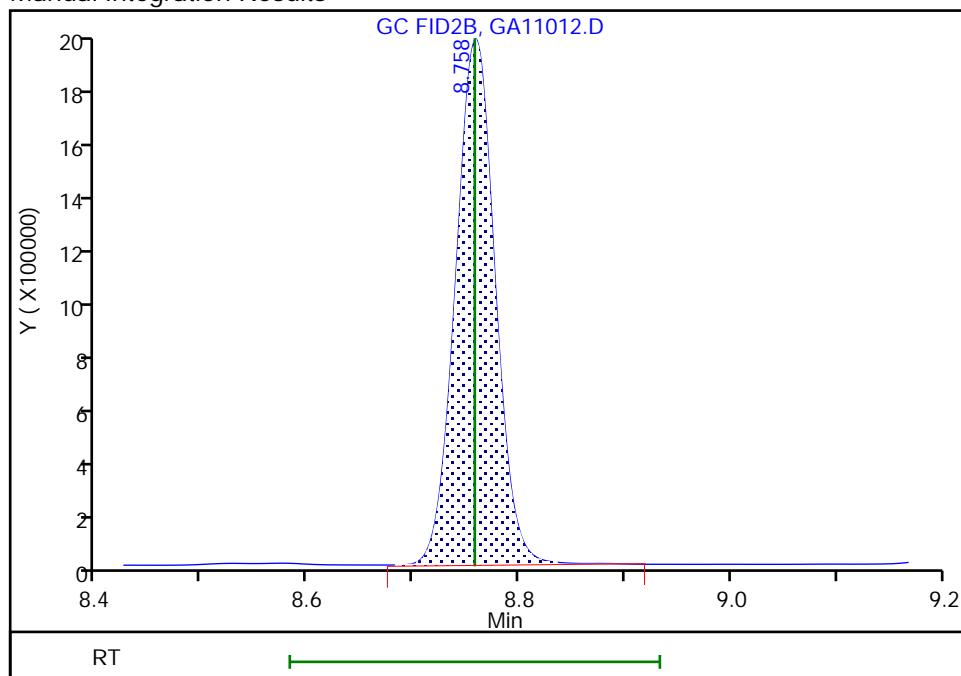
RT: 8.76
 Area: 4997206
 Amount: 100.0000
 Amount Units: ug/ml

Processing Integration Results



RT: 8.76
 Area: 4997206
 Amount: 97.938084
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:43

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Savannah

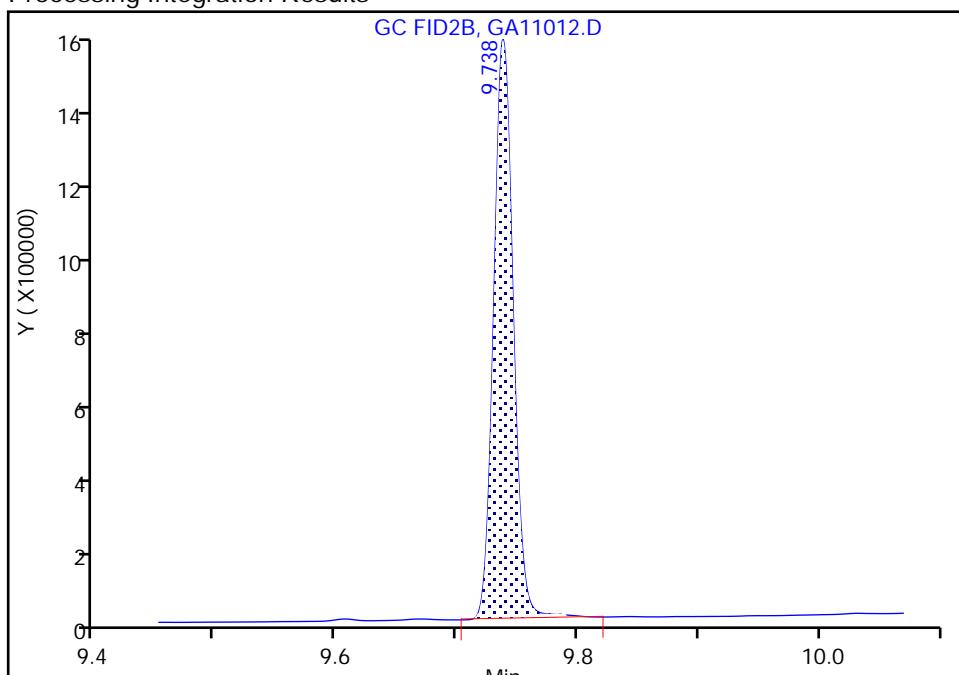
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

9 2,2'-Oxybisethanol, CAS: 111-46-6

Signal: 1

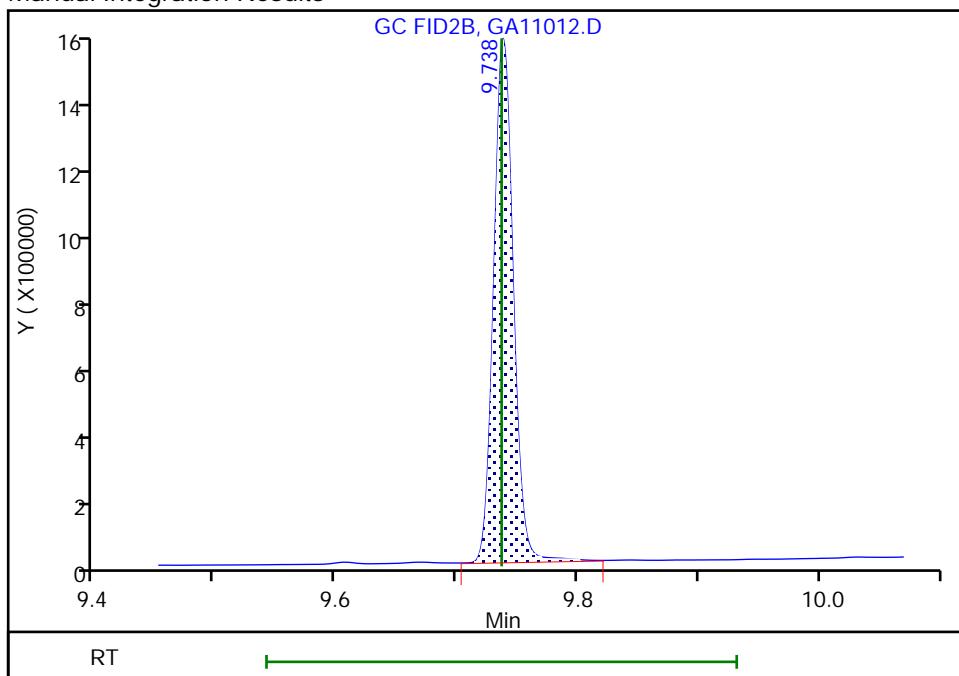
RT: 9.74
 Area: 1665230
 Amount: 100.0000
 Amount Units: ug/ml

Processing Integration Results



RT: 9.74
 Area: 1665230
 Amount: 98.624633
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:45

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Savannah

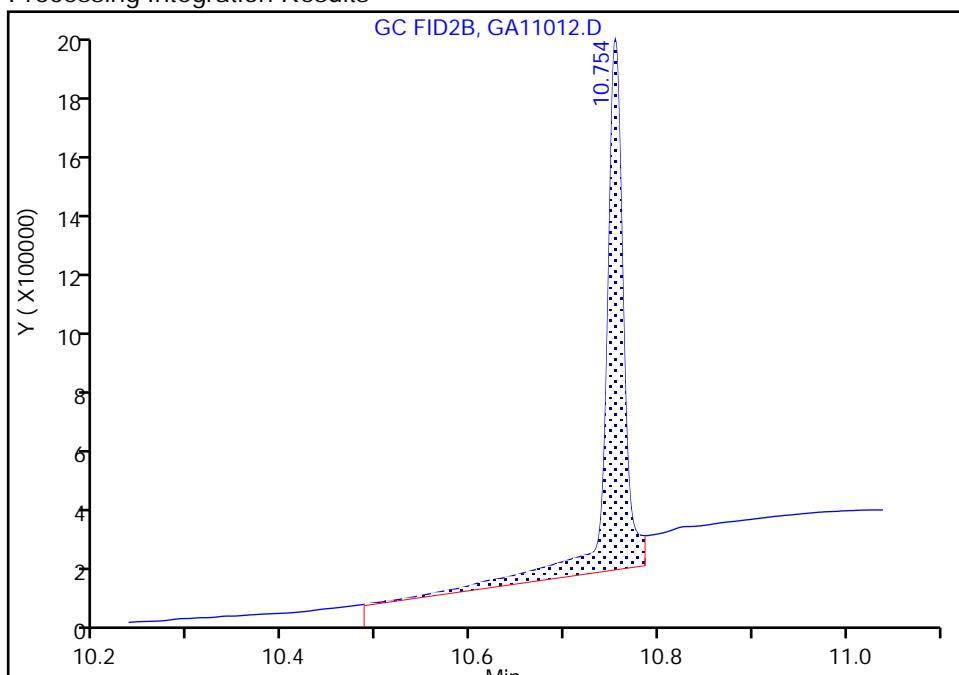
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

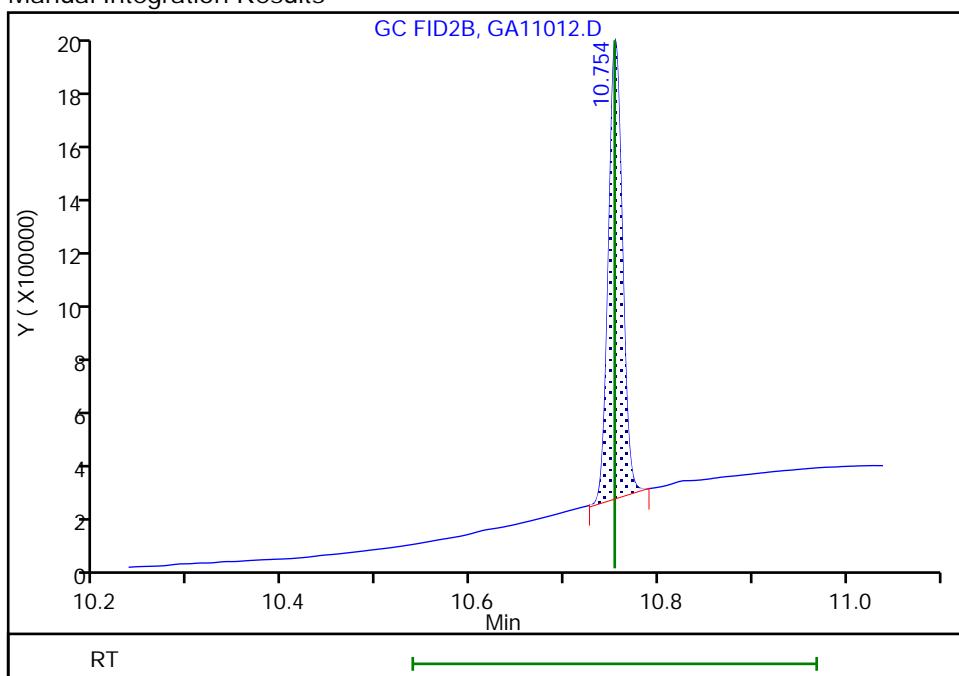
RT: 10.75
 Area: 2203486
 Amount: 100.0000
 Amount Units: ug/ml

Processing Integration Results



RT: 10.75
 Area: 1645092
 Amount: 101.9619
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:58

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah

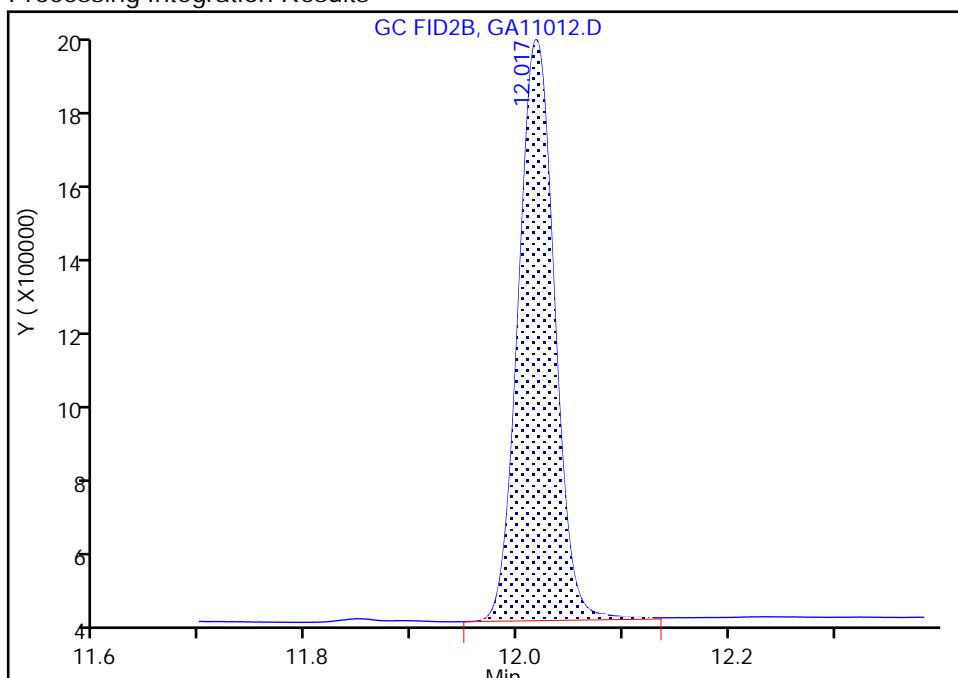
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11012.D
 Injection Date: 11-Jan-2023 19:18:12 Instrument ID: CVGG2
 Lims ID: ic g6
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

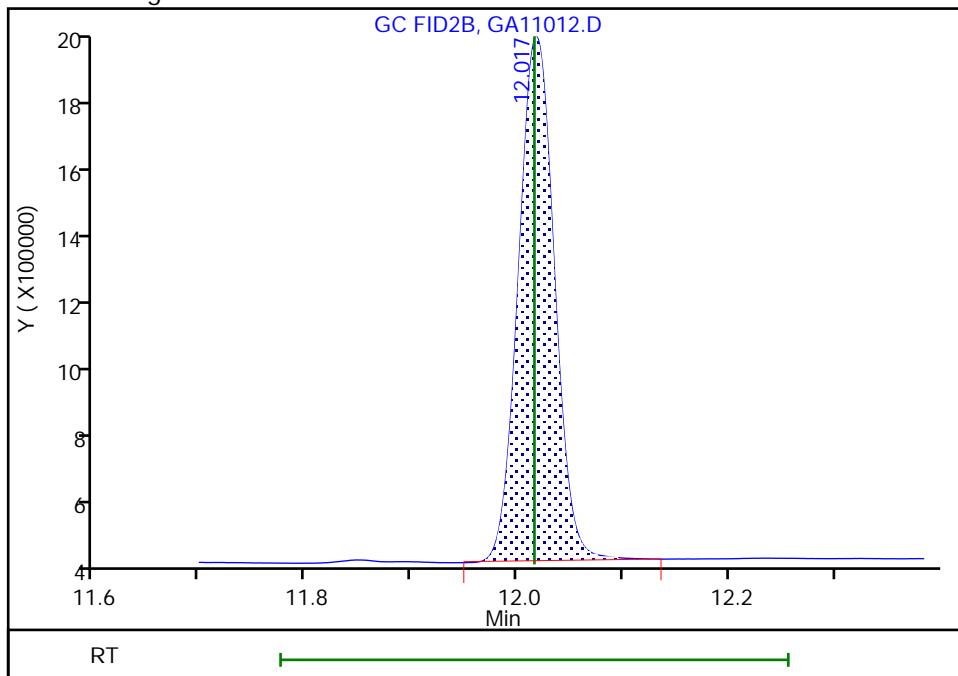
RT: 12.02
 Area: 3503102
 Amount: 200.0000
 Amount Units: ug/ml

Processing Integration Results



RT: 12.02
 Area: 3503102
 Amount: 199.9711
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 19:39:53

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11013.D
 Lims ID: ic g5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Jan-2023 19:41:27 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083226-013
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 12-Jan-2023 12:14:38 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1634

First Level Reviewer: SWK1 Date: 12-Jan-2023 12:14:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Ethanol, 2-propoxy						
3.115	3.121	-0.006	4944627	80.0	73.3	
2 4-Hydroxy-4-methyl-2-pentanone						
3.711	3.724	-0.013	4750126	80.0	72.0	
3 2-Butoxyethanol						
4.030	4.031	-0.001	5370855	80.0	73.4	
* 4 n-Heptyl Alcohol						
4.509	4.504	0.005	4582147	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.466	5.469	-0.003	362014	80.0	76.7	
6 Propylene glycol						
6.338	6.341	-0.003	1770636	80.0	75.8	
7 Ethylene glycol						
6.783	6.782	0.001	1363409	80.0	71.3	
8 2-(2-Butoxyethoxy)ethanol						
8.761	8.758	0.003	3847420	80.0	71.8	
9 2,2'-Oxybisethanol						
9.738	9.737	0.001	1300421	80.0	73.3	
10 Triethylene Glycol						M
10.754	10.753	0.001	1268874	80.0	74.9	M
11 Tetraethylene Glycol						
12.018	12.016	0.002	2715743	160.0	147.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 40.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

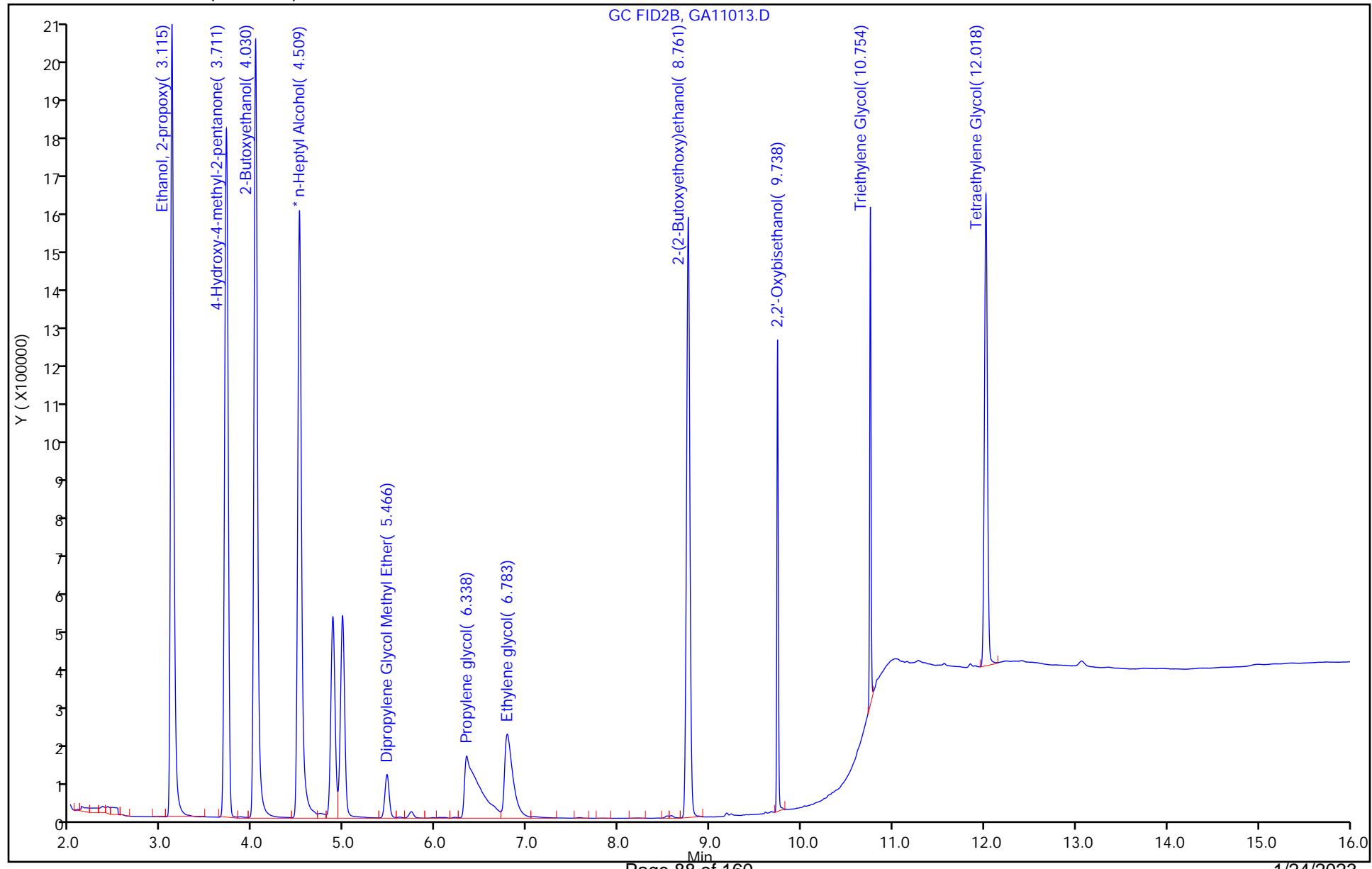
Report Date: 12-Jan-2023 12:14:38

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230111-83226.b\\GA11013.D
Injection Date: 11-Jan-2023 19:41:27 Instrument ID: CVGG2
Lims ID: ic g5 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 13



Eurofins Savannah

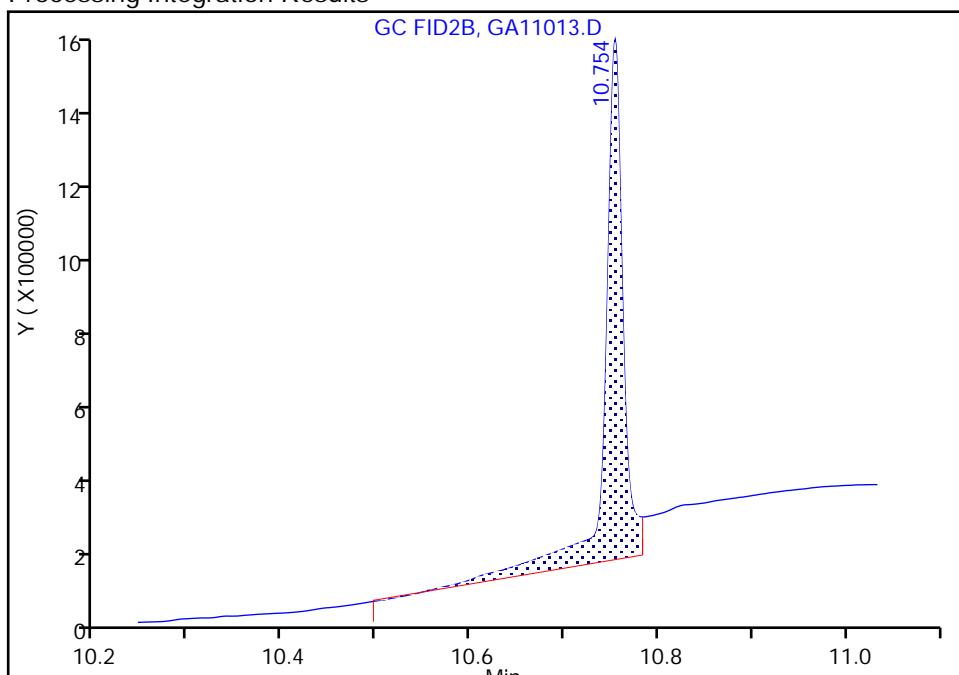
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11013.D
 Injection Date: 11-Jan-2023 19:41:27 Instrument ID: CVGG2
 Lims ID: ic g5
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

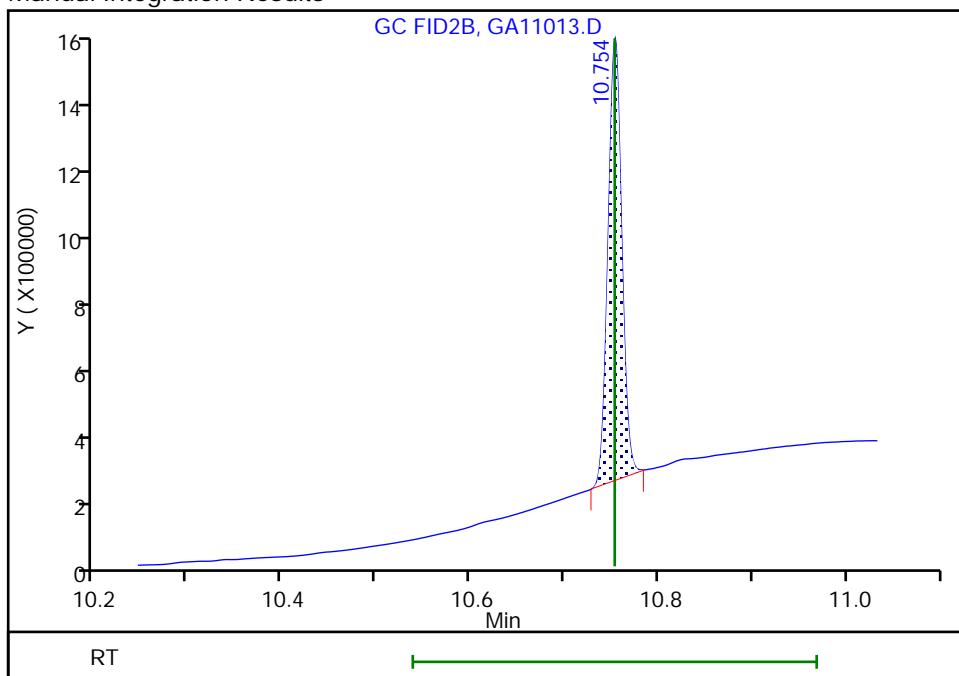
RT: 10.75
 Area: 1827634
 Amount: 91.099228
 Amount Units: ug/ml

Processing Integration Results



RT: 10.75
 Area: 1268874
 Amount: 74.876909
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 20:18:06

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11014.D
 Lims ID: ic g4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Jan-2023 20:04:42 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083226-014
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 12-Jan-2023 12:14:39 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1634

First Level Reviewer: SWK1 Date: 11-Jan-2023 20:52:01

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Ethanol, 2-propoxy						
3.119	3.119	0.000	3185611	50.0	47.3	
2 4-Hydroxy-4-methyl-2-pentanone						
3.717	3.717	0.000	3131890	50.0	47.5	
3 2-Butoxyethanol						
4.031	4.031	0.000	3432653	50.0	47.0	
* 4 n-Heptyl Alcohol						
4.508	4.508	0.000	4573349	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.466	5.466	0.000	238530	50.0	51.2	
6 Propylene glycol						
6.335	6.335	0.000	1136780	50.0	48.7	
7 Ethylene glycol						
6.780	6.780	0.000	891870	50.0	46.8	
8 2-(2-Butoxyethoxy)ethanol						
8.761	8.761	0.000	2540215	50.0	47.5	
9 2,2'-Oxybisethanol						
9.738	9.738	0.000	847316	50.0	47.9	
10 Triethylene Glycol					M	
10.753	10.753	0.000	817829	50.0	48.4	M
11 Tetraethylene Glycol						
12.017	12.017	0.000	1764754	100.0	96.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 25.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

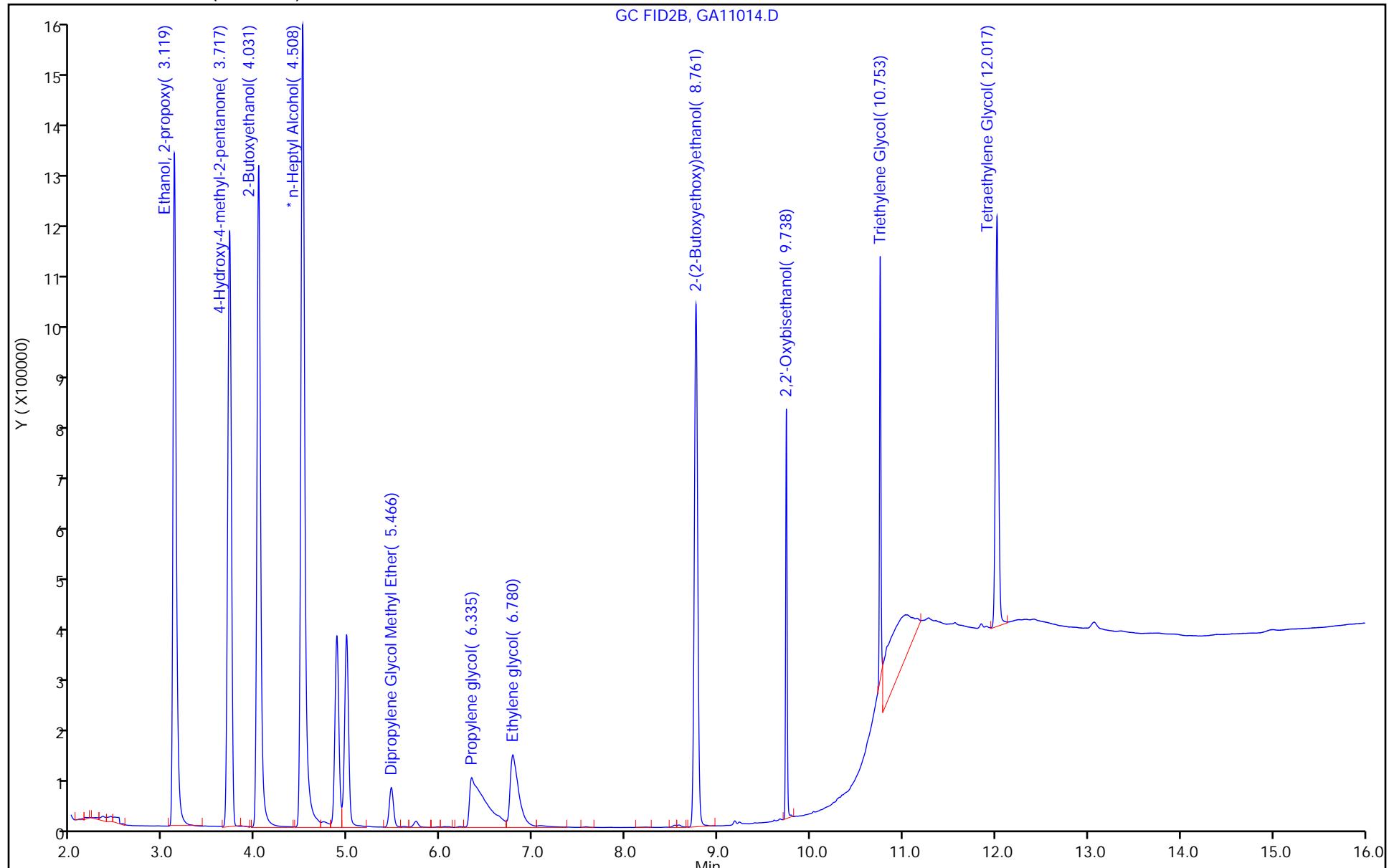
Report Date: 12-Jan-2023 12:14:39

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230111-83226.b\\GA11014.D
Injection Date: 11-Jan-2023 20:04:42 Instrument ID: CVGG2
Lims ID: ic g4 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 14



Eurofins Savannah

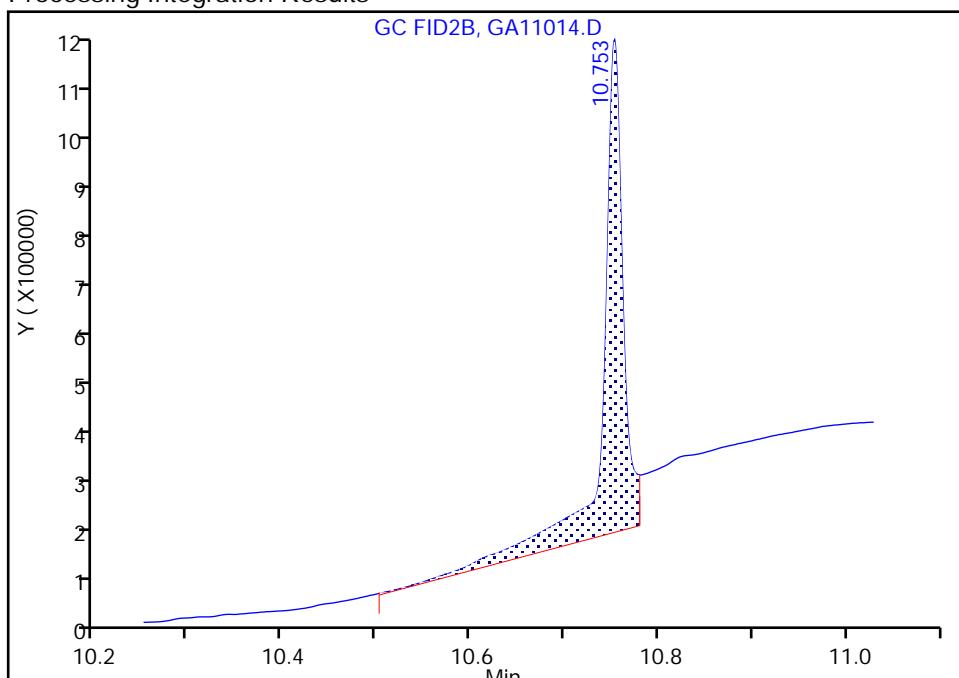
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11014.D
 Injection Date: 11-Jan-2023 20:04:42 Instrument ID: CVGG2
 Lims ID: ic g4
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

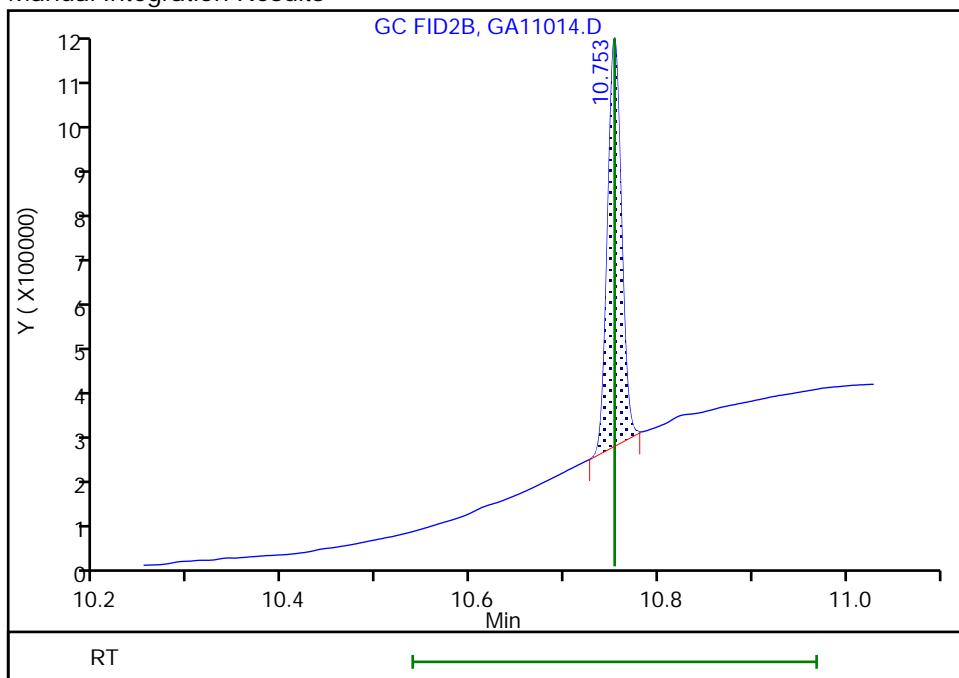
RT: 10.75
 Area: 1328259
 Amount: 46.921372
 Amount Units: ug/ml

Processing Integration Results



RT: 10.75
 Area: 817829
 Amount: 48.353352
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 20:51:59

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11015.D
 Lims ID: icis g3
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 11-Jan-2023 20:28:01 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083226-015
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 12-Jan-2023 12:14:40 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1634

First Level Reviewer: SWK1 Date: 11-Jan-2023 20:52:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy					M	
3.121	3.121	0.000	1400382	20.0	20.2	M
2 4-Hydroxy-4-methyl-2-pentanone						
3.724	3.724	0.000	1371968	20.0	20.2	
3 2-Butoxyethanol						
4.031	4.031	0.000	1519939	20.0	20.2	
* 4 n-Heptyl Alcohol						
4.504	4.504	0.000	4703166	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.469	5.469	0.000	103939	20.0	21.9	
6 Propylene glycol						
6.341	6.341	0.000	485048	20.0	20.2	
7 Ethylene glycol						
6.782	6.782	0.000	378219	20.0	19.3	
8 2-(2-Butoxyethoxy)ethanol						
8.758	8.758	0.000	1111022	20.0	20.2	
9 2,2'-Oxybisethanol						
9.737	9.737	0.000	356750	20.0	19.6	
10 Triethylene Glycol					M	
10.753	10.753	0.000	332049	20.0	19.1	M
11 Tetraethylene Glycol						
12.016	12.016	0.000	748973	40.0	39.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

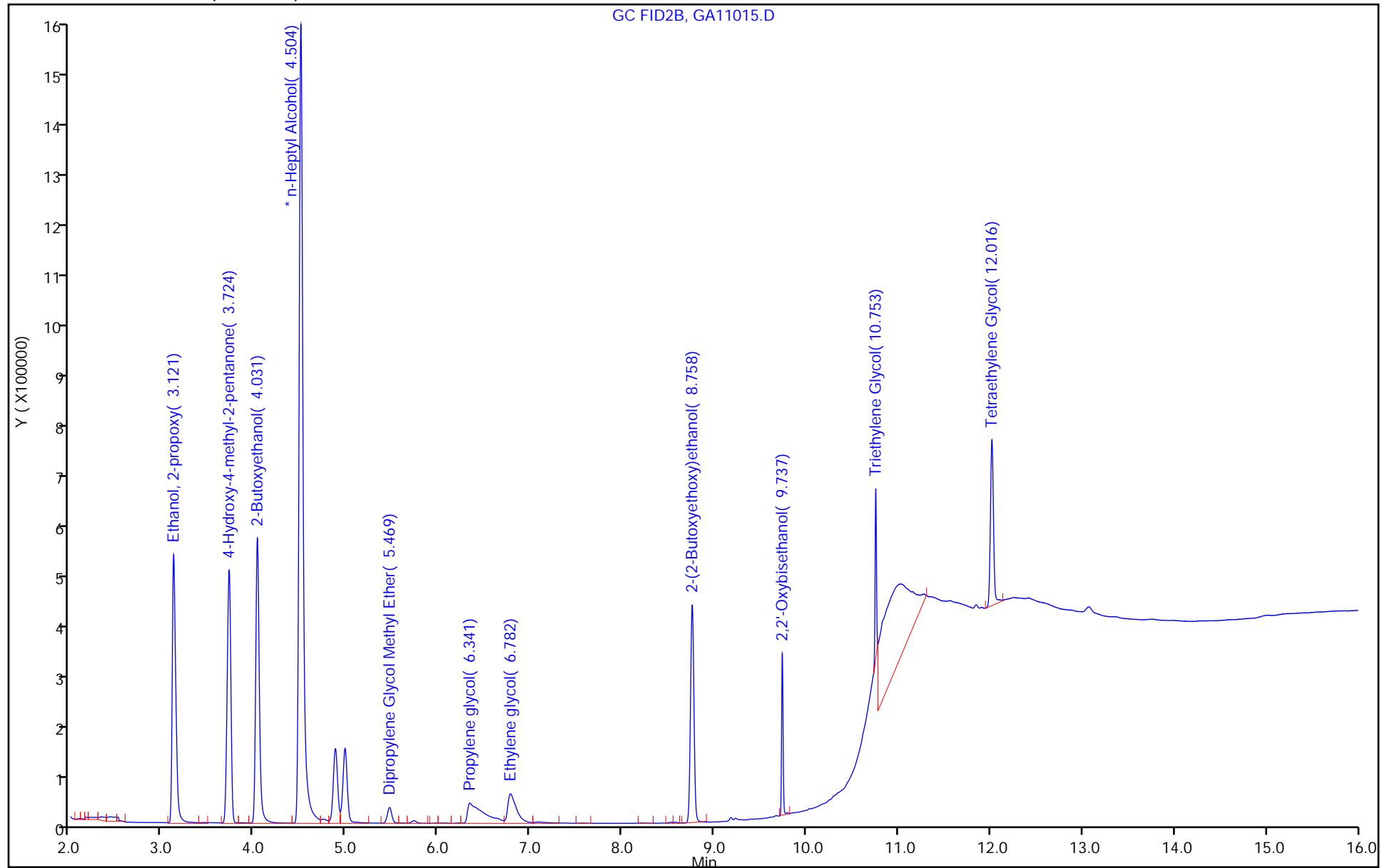
Report Date: 12-Jan-2023 12:14:40

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230111-83226.b\\GA11015.D
Injection Date: 11-Jan-2023 20:28:01 Instrument ID: CVGG2
Lims ID: icis g3 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 15



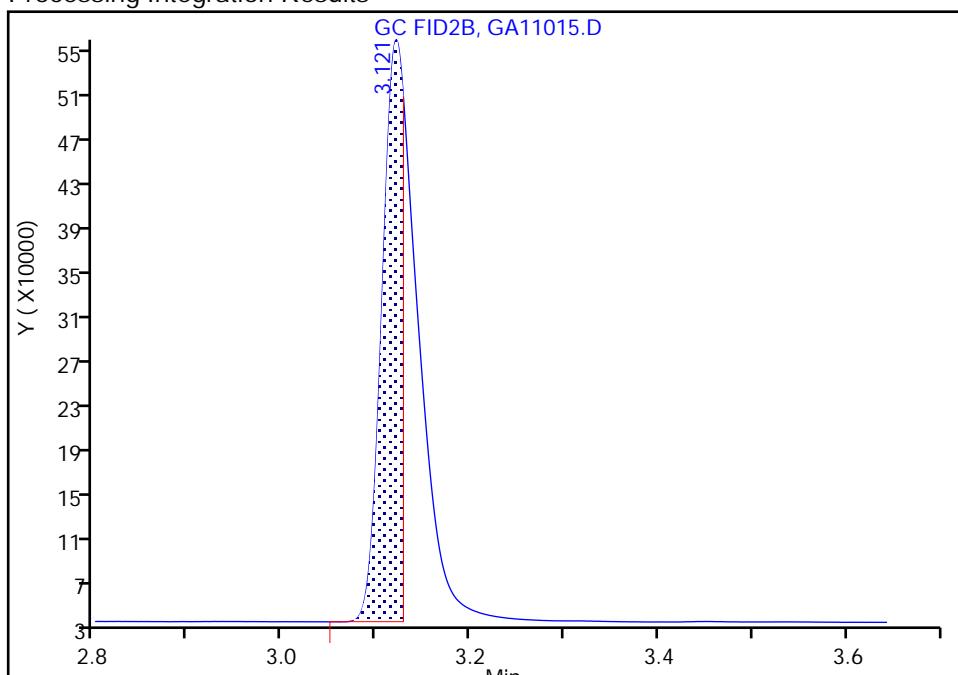
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11015.D
 Injection Date: 11-Jan-2023 20:28:01 Instrument ID: CVGG2
 Lims ID: icis g3
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

1 Ethanol, 2-propoxy, CAS: 2807-30-9
Signal: 1

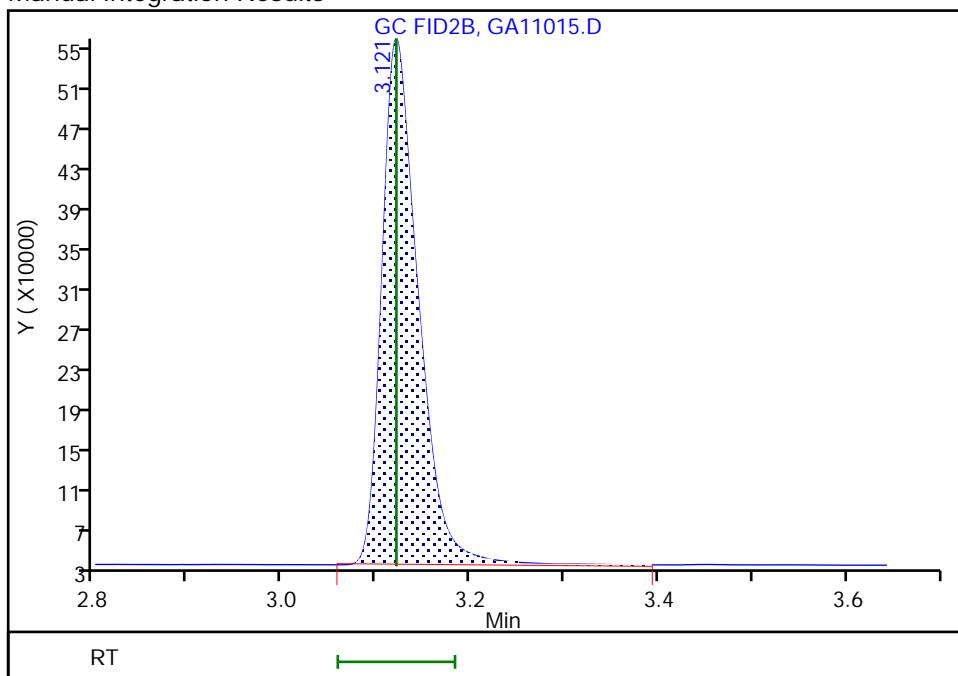
RT: 3.12
 Area: 767020
 Amount: 19.716542
 Amount Units: ug/ml

Processing Integration Results



RT: 3.12
 Area: 1400382
 Amount: 20.235490
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 20:52:14

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah

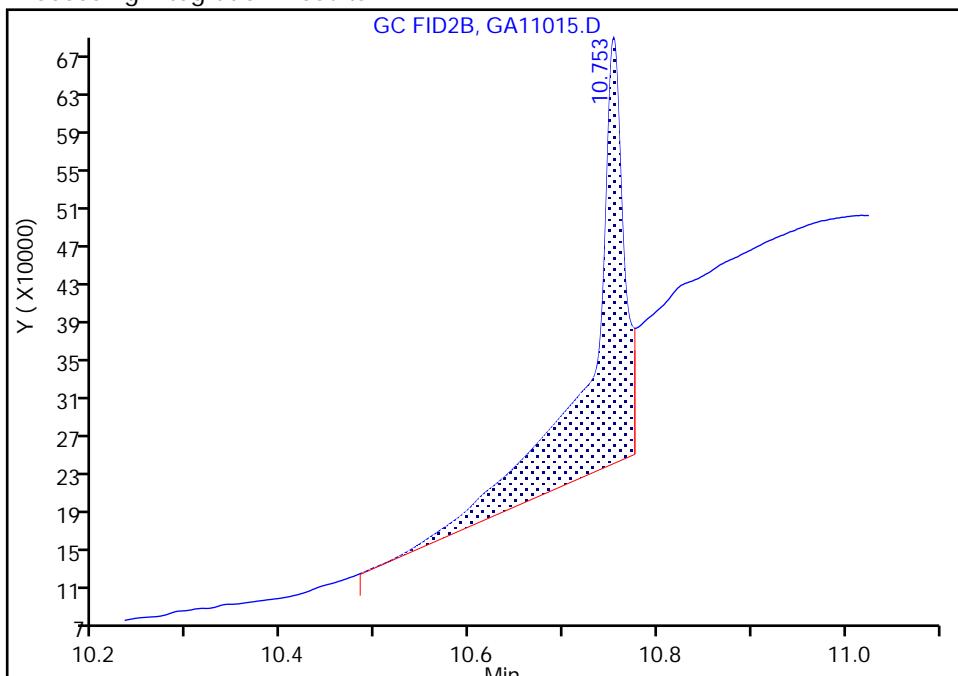
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11015.D
 Injection Date: 11-Jan-2023 20:28:01 Instrument ID: CVGG2
 Lims ID: icis g3
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

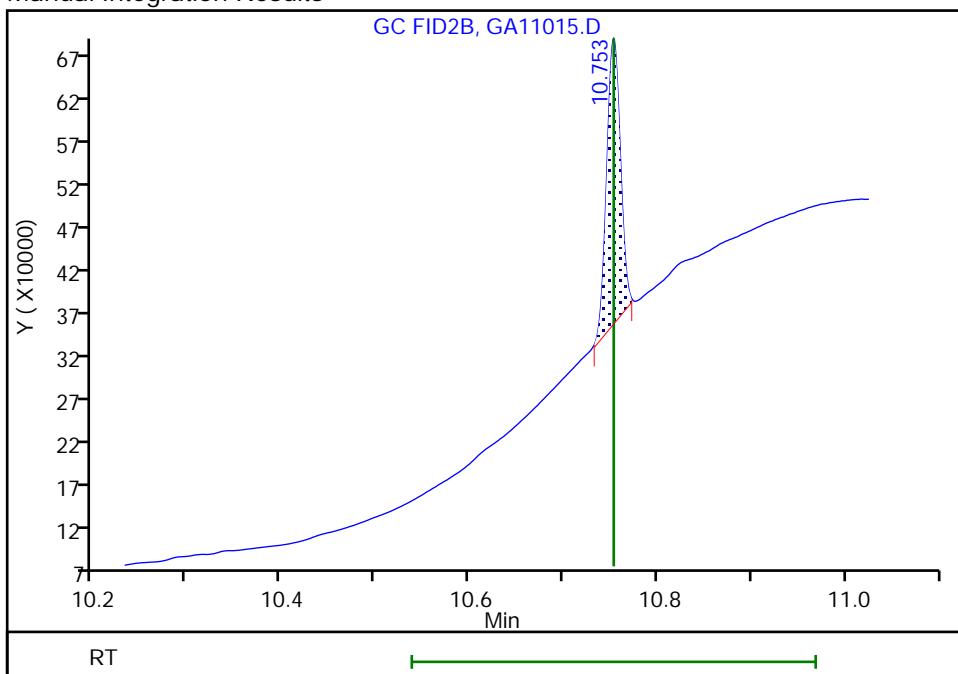
Processing Integration Results

RT: 10.75
 Area: 1102258
 Amount: 41.614842
 Amount Units: ug/ml



Manual Integration Results

RT: 10.75
 Area: 332049
 Amount: 19.090192
 Amount Units: ug/ml



Reviewer: SWK1, 11-Jan-2023 20:52:21

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11016.D
 Lims ID: ic g2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Jan-2023 20:51:15 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083226-016
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 12-Jan-2023 12:14:40 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1634

First Level Reviewer: SWK1 Date: 11-Jan-2023 21:35:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Ethanol, 2-propoxy						
3.118	3.121	-0.003	729297	10.0	10.1	
2 4-Hydroxy-4-methyl-2-pentanone						
3.719	3.724	-0.005	711603	10.0	10.0	
3 2-Butoxyethanol						
4.030	4.031	-0.001	801660	10.0	10.2	
* 4 n-Heptyl Alcohol						
4.505	4.504	0.001	4915794	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.469	5.469	0.000	53252	10.0	10.7	
6 Propylene glycol						
6.339	6.341	-0.002	263729	10.0	10.5	
7 Ethylene glycol						
6.785	6.782	0.003	217023	10.0	10.6	
8 2-(2-Butoxyethoxy)ethanol						
8.759	8.758	0.001	578471	10.0	10.1	
9 2,2'-Oxybisethanol						
9.737	9.737	0.000	195926	10.0	10.3	
10 Triethylene Glycol					M	
10.753	10.753	0.000	183444	10.0	10.1	M
11 Tetraethylene Glycol						
12.015	12.016	-0.001	403210	20.0	20.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 5.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

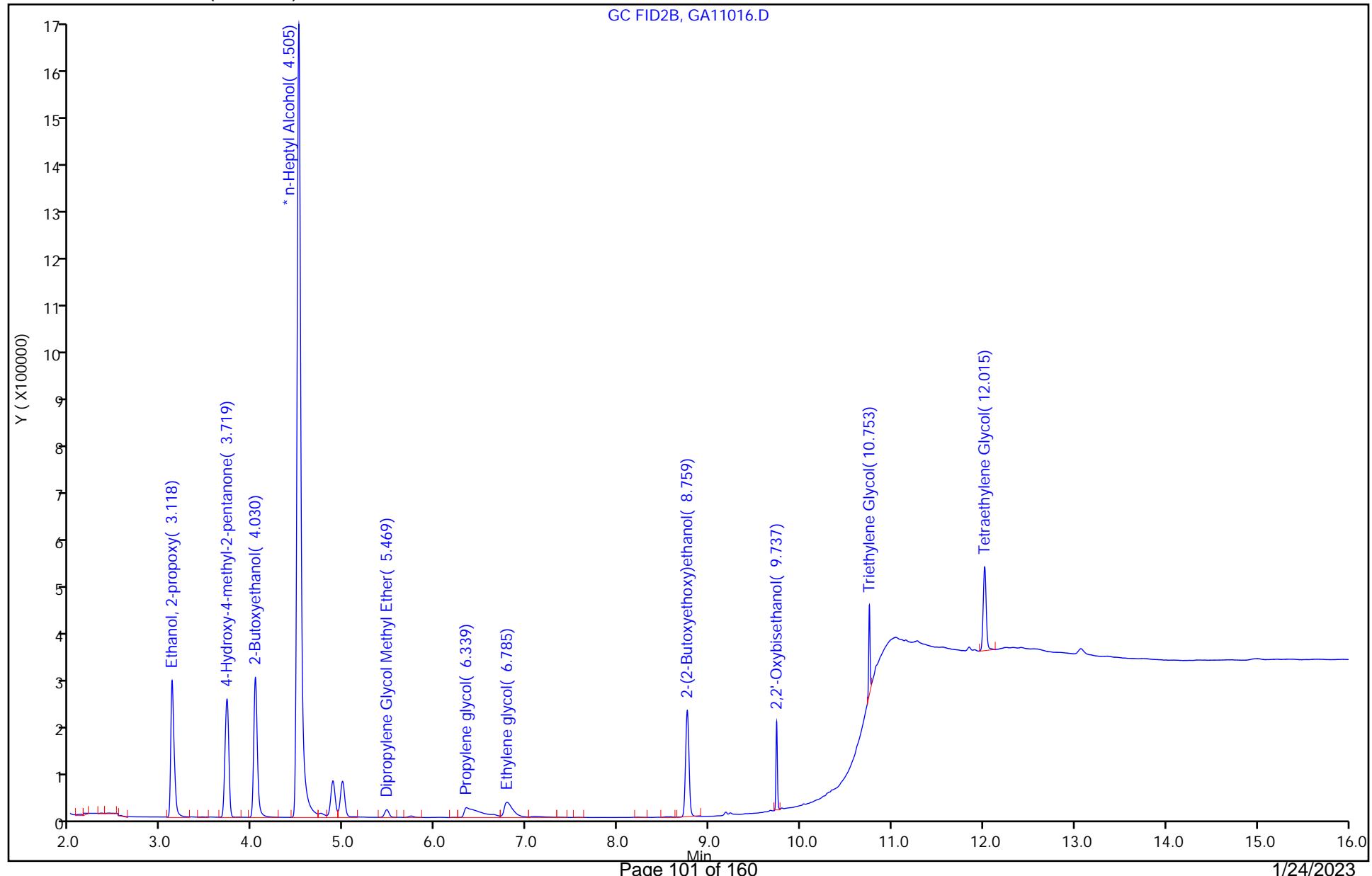
Report Date: 12-Jan-2023 12:14:41

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230111-83226.b\\GA11016.D
Injection Date: 11-Jan-2023 20:51:15 Instrument ID: CVGG2
Lims ID: ic g2 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 16



Eurofins Savannah

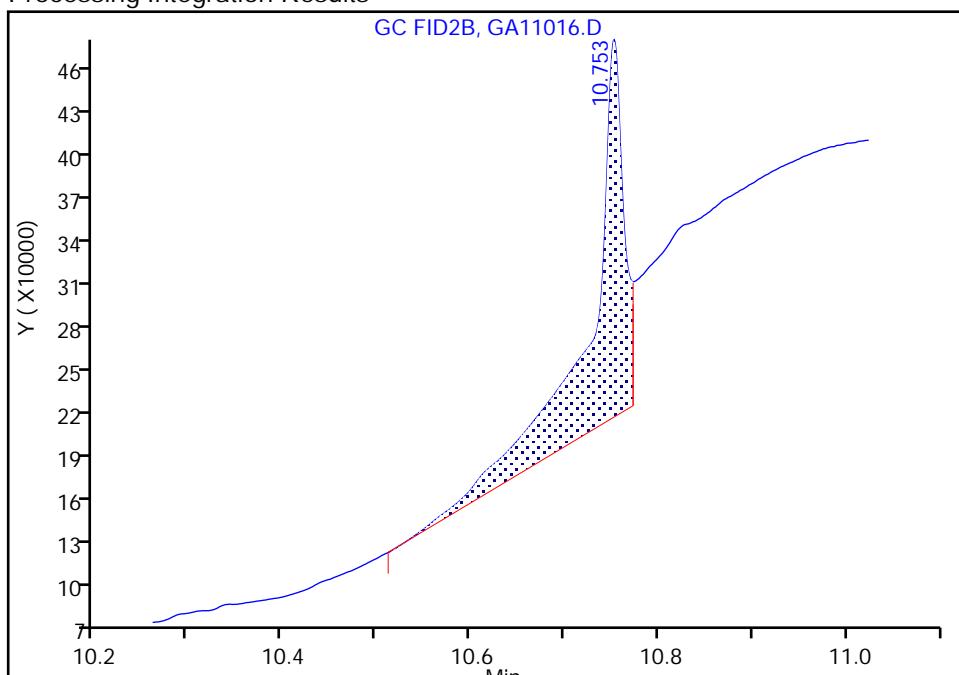
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11016.D
 Injection Date: 11-Jan-2023 20:51:15 Instrument ID: CVGG2
 Lims ID: ic g2
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

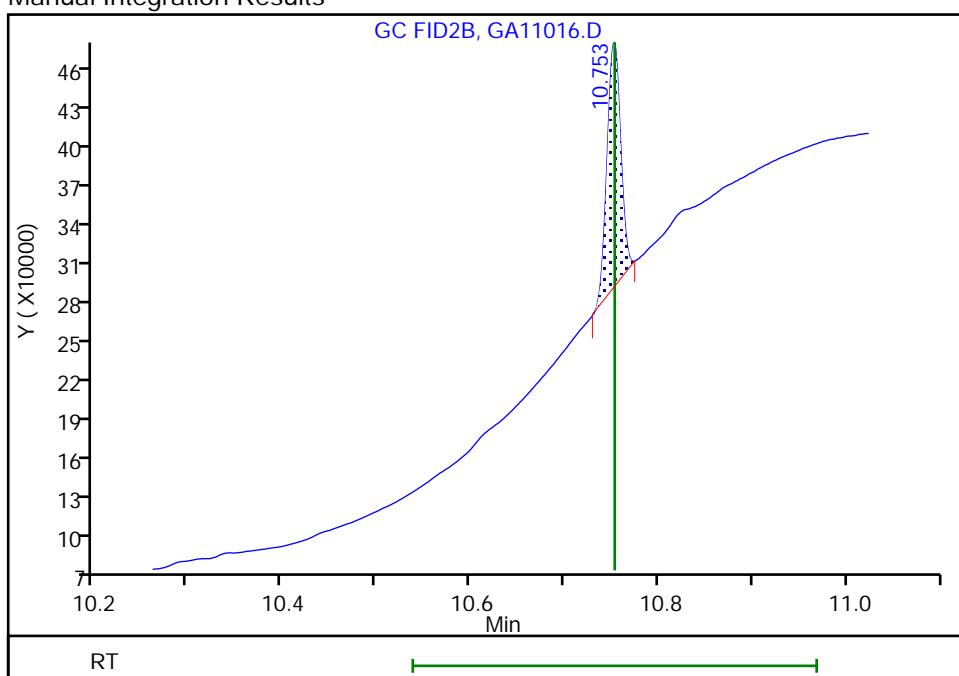
RT: 10.75
 Area: 624342
 Amount: 21.077064
 Amount Units: ug/ml

Processing Integration Results



RT: 10.75
 Area: 183444
 Amount: 10.090397
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 21:35:15

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Lims ID: ic g1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Jan-2023 21:14:29 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083226-017
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 12-Jan-2023 12:14:41 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1634

First Level Reviewer: SWK1 Date: 11-Jan-2023 21:35:45

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy						
3.122	3.121	0.001	412485	5.00	5.78	
2 4-Hydroxy-4-methyl-2-pentanone						
3.727	3.724	0.003	405244	5.00	5.80	
3 2-Butoxyethanol						
4.031	4.031	0.000	449925	5.00	5.81	
* 4 n-Heptyl Alcohol						
4.502	4.504	-0.002	4848013	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.463	5.469	-0.006	14210	5.00	2.80	
6 Propylene glycol						
6.333	6.341	-0.008	124185	5.00	5.02	
7 Ethylene glycol						
6.777	6.782	-0.005	121803	5.00	6.02	
8 2-(2-Butoxyethoxy)ethanol						
8.756	8.758	-0.002	328114	5.00	5.79	
9 2,2'-Oxybisethanol						
9.737	9.737	0.000	106006	5.00	5.65	
10 Triethylene Glycol						M
10.753	10.753	0.000	99849	5.00	5.57	M
11 Tetraethylene Glycol						
12.016	12.016	0.000	214886	10.0	11.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00052

Amount Added: 2.50

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

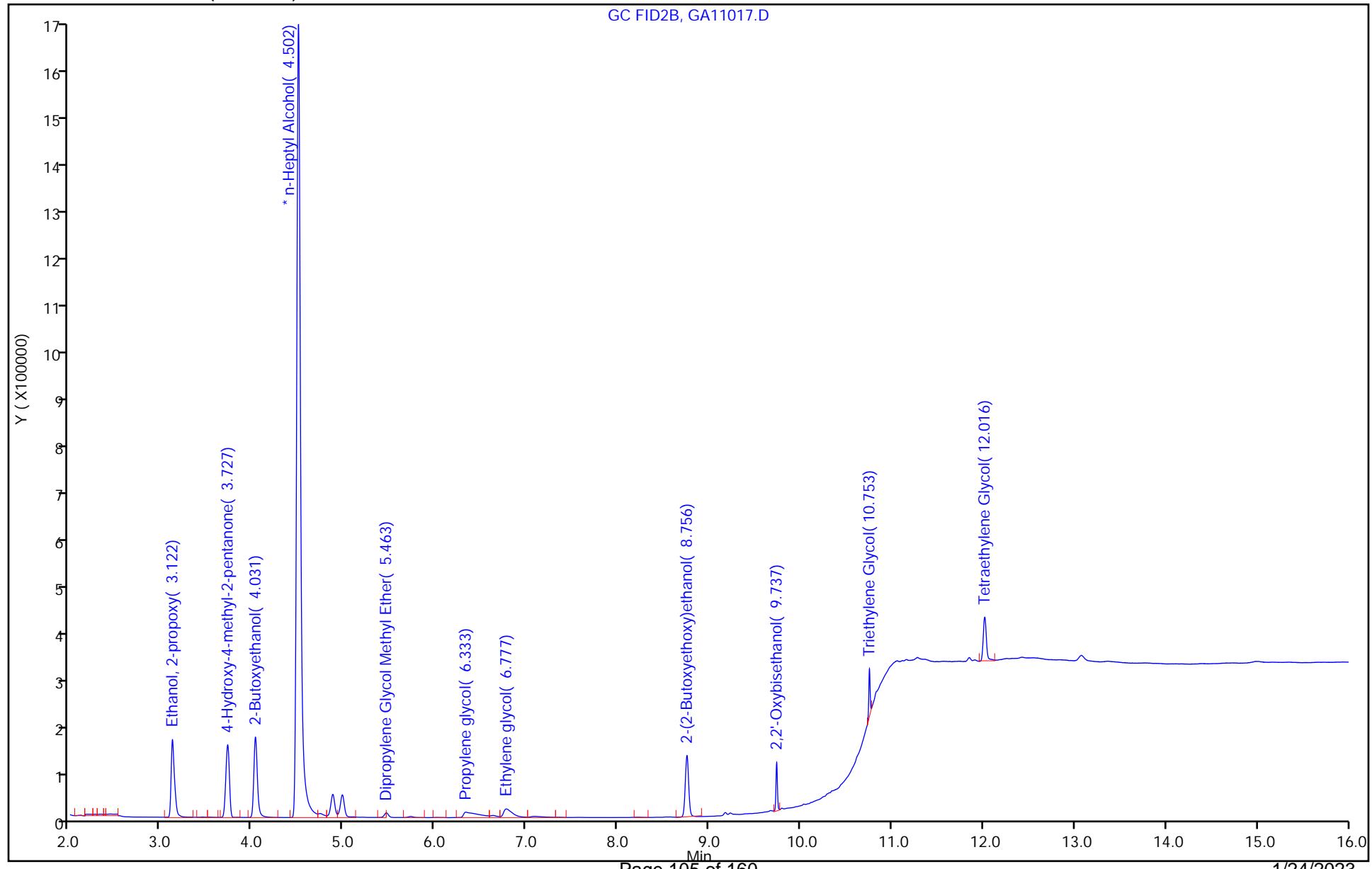
Report Date: 12-Jan-2023 12:14:41

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230111-83226.b\\GA11017.D
Injection Date: 11-Jan-2023 21:14:29 Instrument ID: CVGG2
Lims ID: ic g1 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 17



Eurofins Savannah

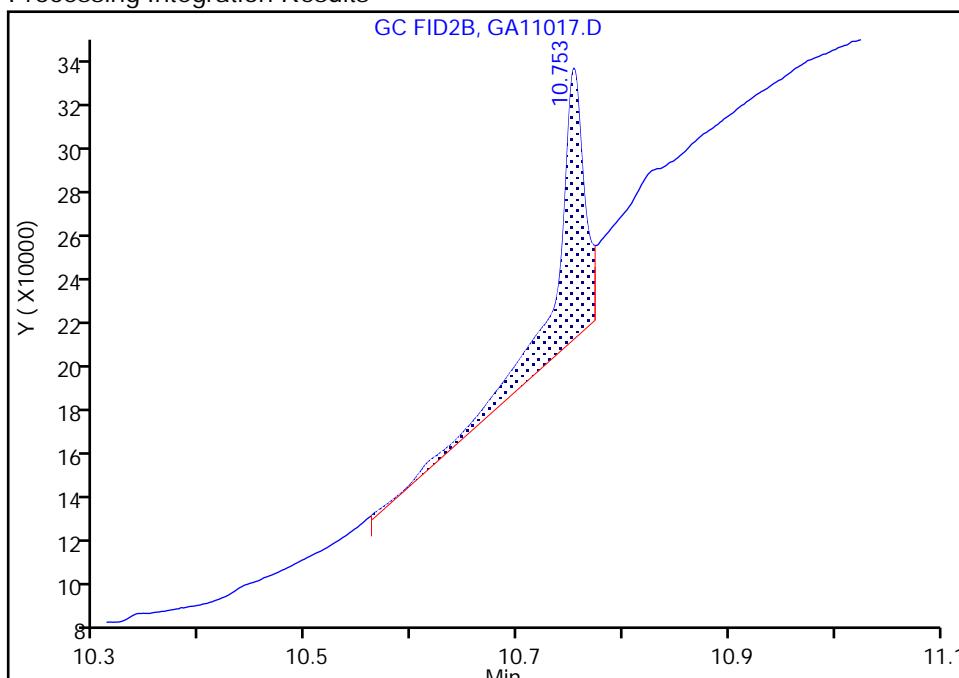
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Injection Date: 11-Jan-2023 21:14:29 Instrument ID: CVGG2
 Lims ID: ic g1
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

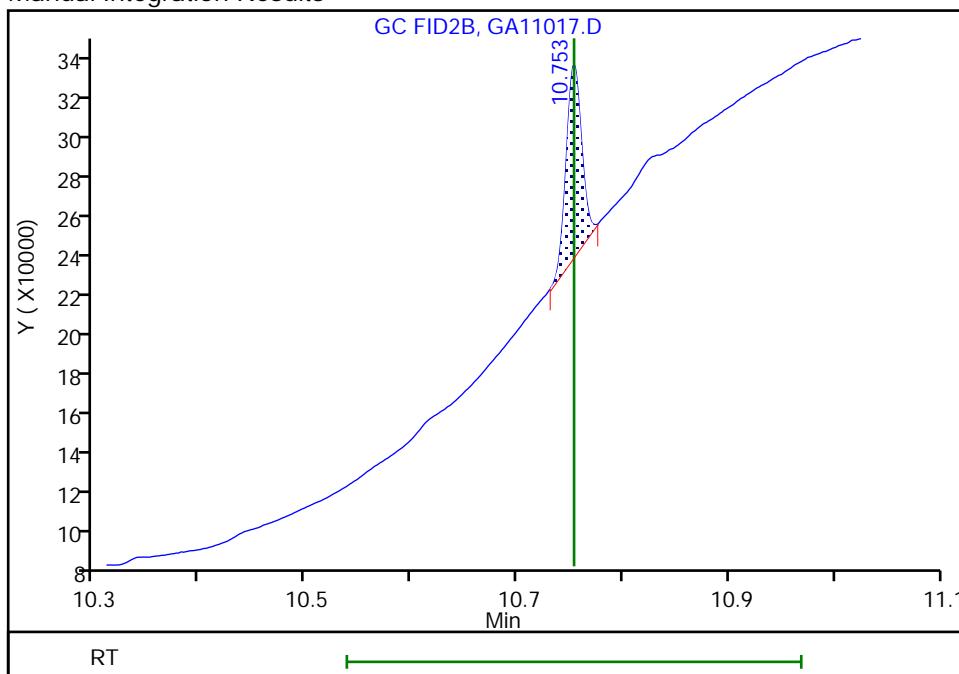
RT: 10.75
 Area: 220961
 Amount: 10.059022
 Amount Units: ug/ml

Processing Integration Results



RT: 10.75
 Area: 99849
 Amount: 5.569015
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 21:35:31

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

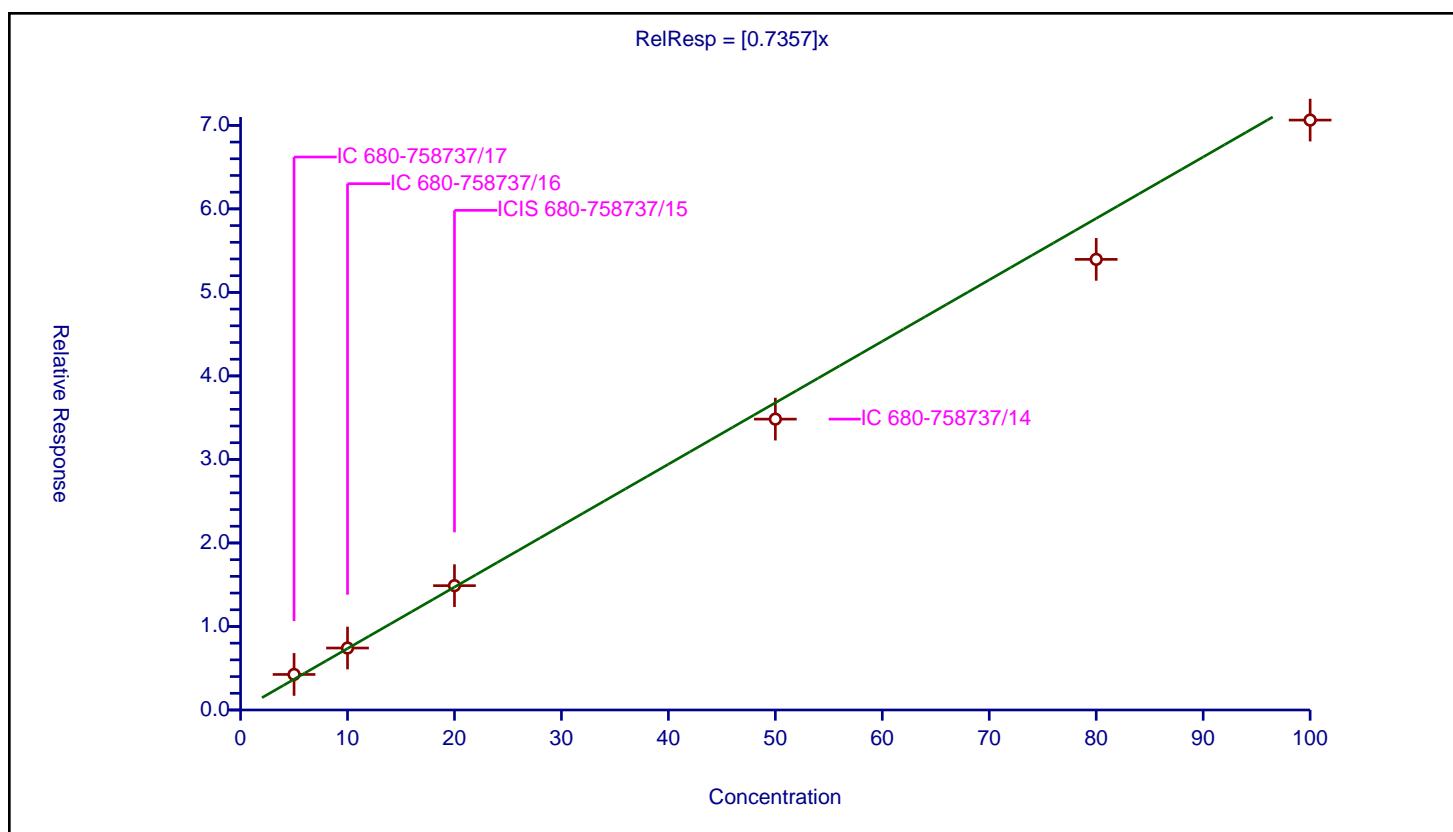
Calibration

/ Ethanol, 2-propoxy

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7357
Error Coefficients	
Standard Error:	3880000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	4.254166	50.0	4848013.0	0.850833	Y
2	IC 680-758737/16	10.0	7.417896	50.0	4915794.0	0.74179	Y
3	ICIS 680-758737/15	20.0	14.887652	50.0	4703166.0	0.744383	Y
4	IC 680-758737/14	50.0	34.827989	50.0	4573349.0	0.69656	Y
5	IC 680-758737/13	80.0	53.955351	50.0	4582147.0	0.674442	Y
6	IC 680-758737/12	100.0	70.631235	50.0	4362652.0	0.706312	Y



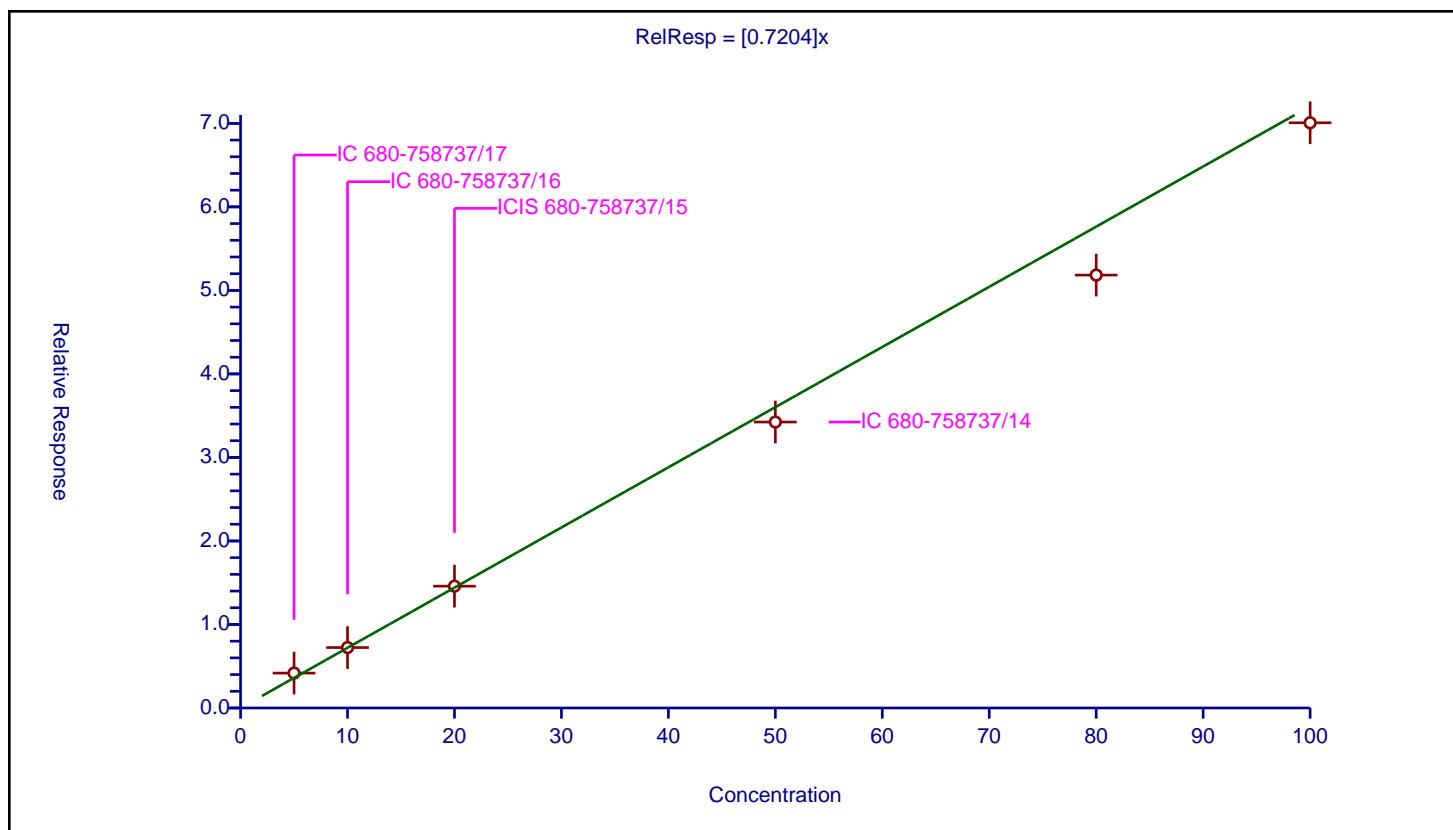
Calibration

/ 4-Hydroxy-4-methyl-2-pentanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7204
Error Coefficients	
Standard Error:	3800000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	4.179485	50.0	4848013.0	0.835897	Y
2	IC 680-758737/16	10.0	7.237925	50.0	4915794.0	0.723793	Y
3	ICIS 680-758737/15	20.0	14.585579	50.0	4703166.0	0.729279	Y
4	IC 680-758737/14	50.0	34.240663	50.0	4573349.0	0.684813	Y
5	IC 680-758737/13	80.0	51.832973	50.0	4582147.0	0.647912	Y
6	IC 680-758737/12	100.0	70.070602	50.0	4362652.0	0.700706	Y



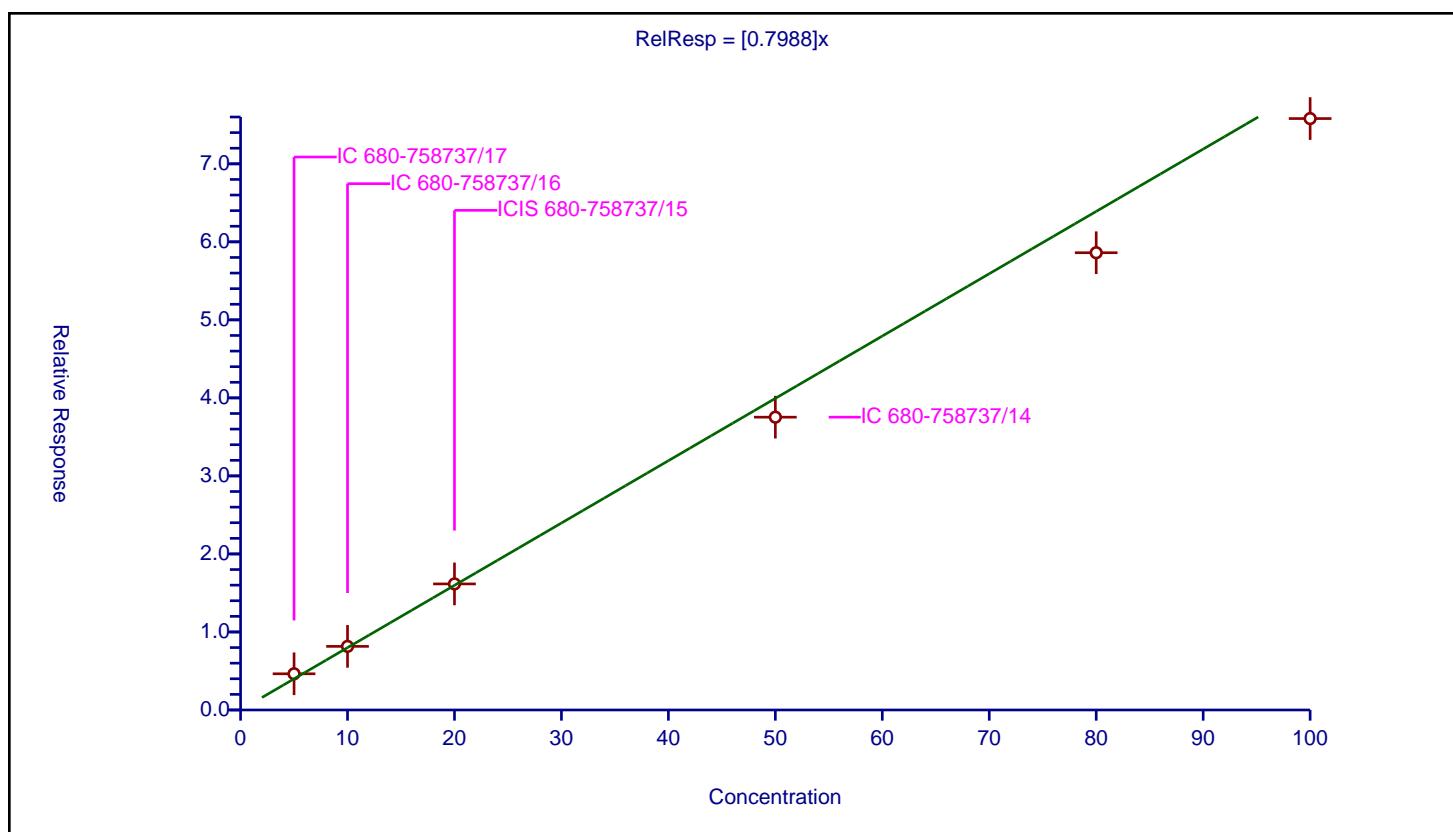
Calibration

/ 2-Butoxyethanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7988
Error Coefficients	
Standard Error:	4180000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	4.640303	50.0	4848013.0	0.928061	Y
2	IC 680-758737/16	10.0	8.153922	50.0	4915794.0	0.815392	Y
3	ICIS 680-758737/15	20.0	16.158679	50.0	4703166.0	0.807934	Y
4	IC 680-758737/14	50.0	37.528877	50.0	4573349.0	0.750578	Y
5	IC 680-758737/13	80.0	58.606315	50.0	4582147.0	0.732579	Y
6	IC 680-758737/12	100.0	75.801176	50.0	4362652.0	0.758012	Y



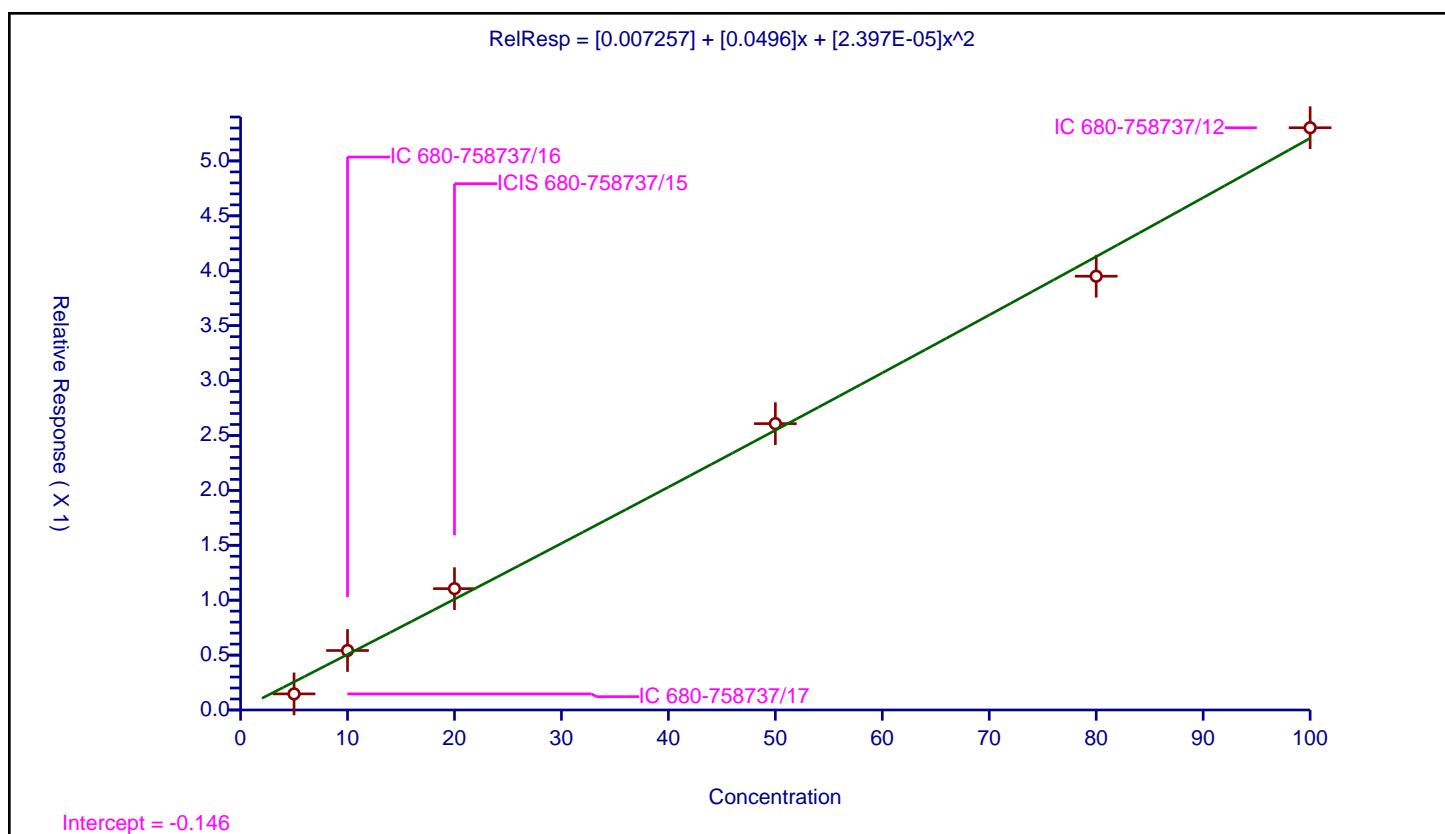
Calibration

/ Dipropylene Glycol Methyl Ether

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0.007257
Slope:	0.0496
Second Order:	2.397E-05
Error Coefficients	
Standard Error:	372000
Relative Standard Error:	26.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	0.146555	50.0	4848013.0	0.029311	Y
2	IC 680-758737/16	10.0	0.541642	50.0	4915794.0	0.054164	Y
3	ICIS 680-758737/15	20.0	1.10499	50.0	4703166.0	0.055249	Y
4	IC 680-758737/14	50.0	2.607826	50.0	4573349.0	0.052157	Y
5	IC 680-758737/13	80.0	3.950266	50.0	4582147.0	0.049378	Y
6	IC 680-758737/12	100.0	5.302314	50.0	4362652.0	0.053023	Y



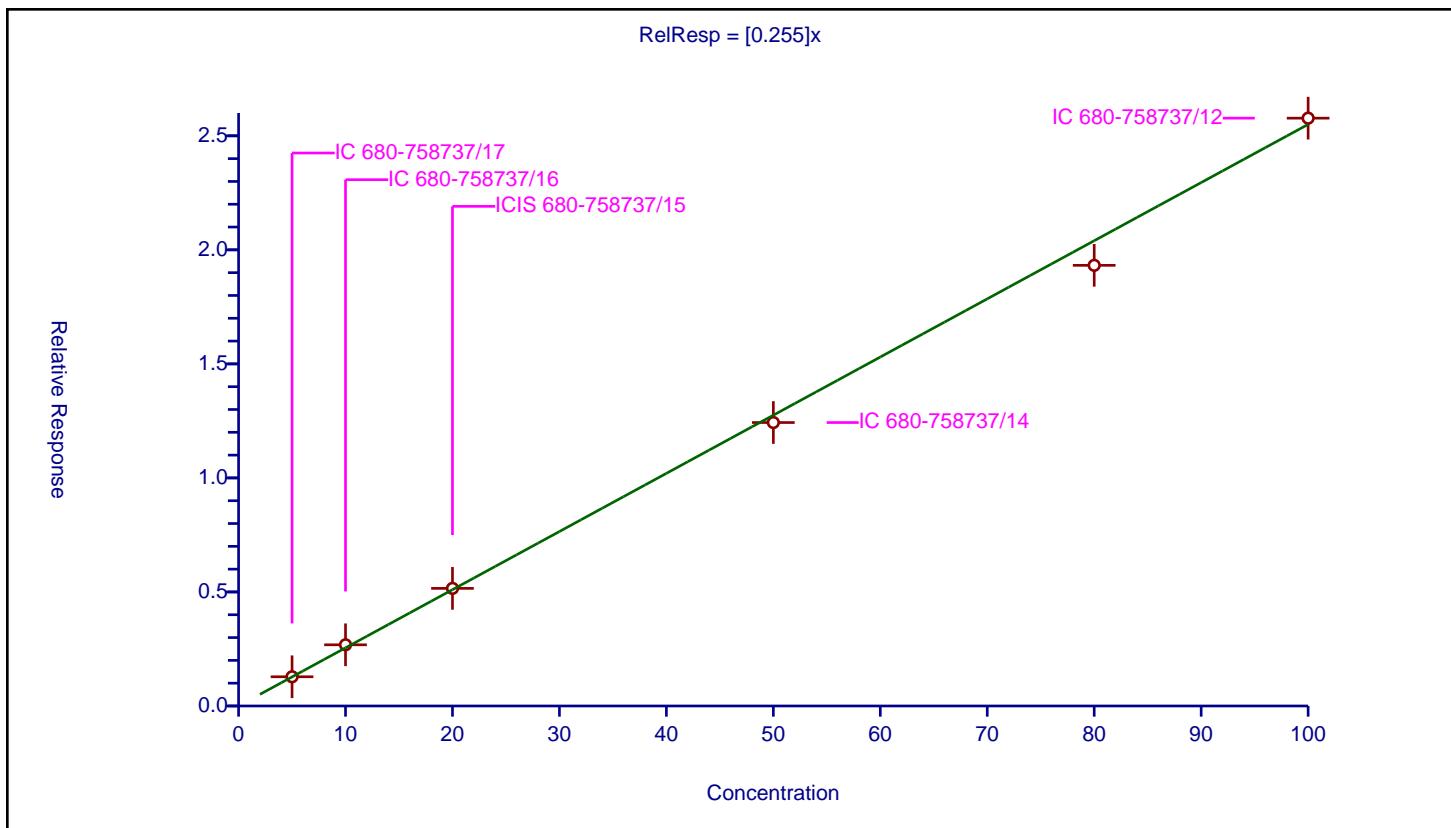
Calibration

/ Propylene glycol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.255
Error Coefficients	
Standard Error:	1400000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	1.280782	50.0	4848013.0	0.256156	Y
2	IC 680-758737/16	10.0	2.682466	50.0	4915794.0	0.268247	Y
3	ICIS 680-758737/15	20.0	5.156612	50.0	4703166.0	0.257831	Y
4	IC 680-758737/14	50.0	12.42831	50.0	4573349.0	0.248566	Y
5	IC 680-758737/13	80.0	19.32103	50.0	4582147.0	0.241513	Y
6	IC 680-758737/12	100.0	25.774678	50.0	4362652.0	0.257747	Y



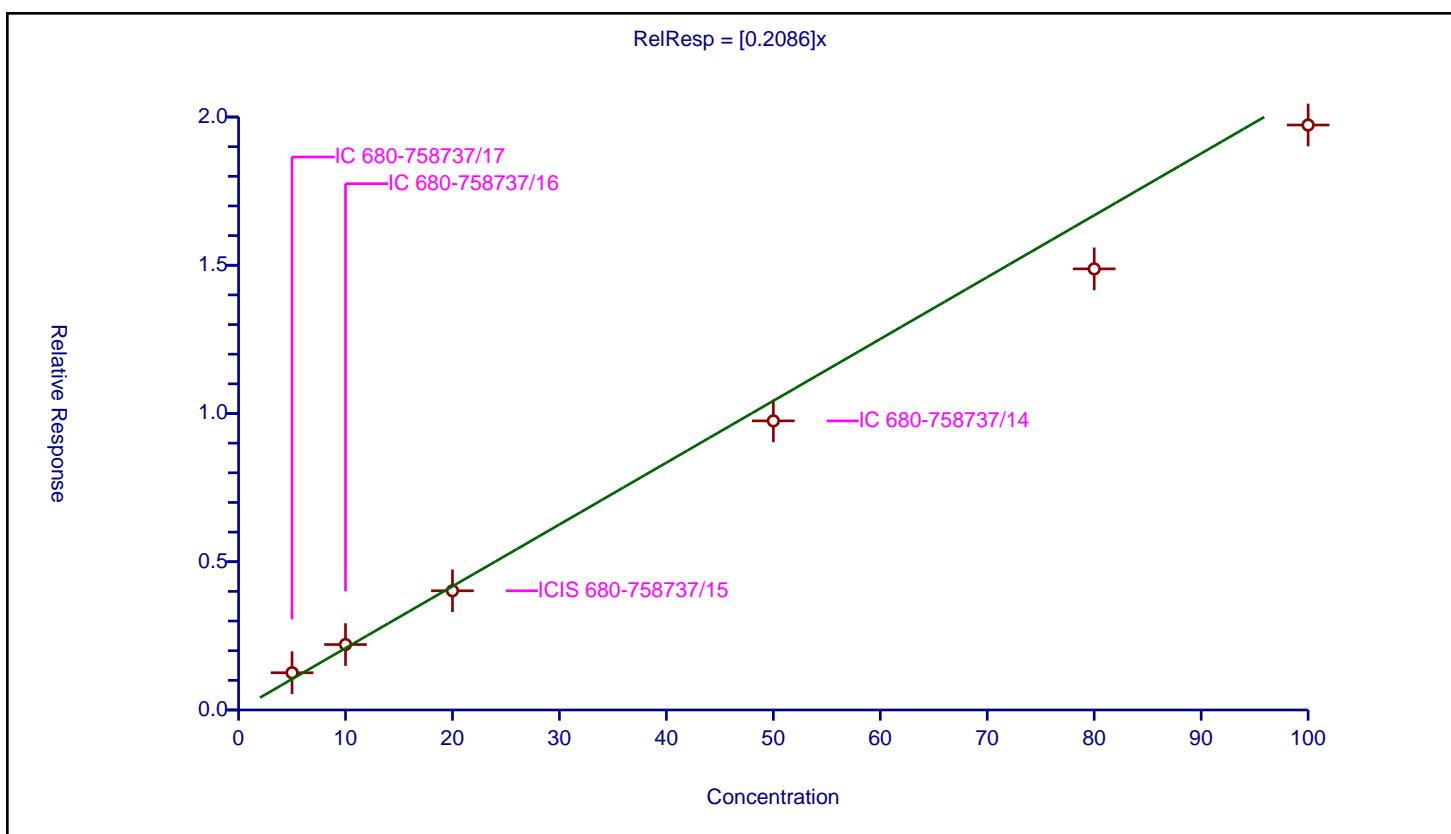
Calibration

/ Ethylene glycol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2086
Error Coefficients	
Standard Error:	1080000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	1.256216	50.0	4848013.0	0.251243	Y
2	IC 680-758737/16	10.0	2.207405	50.0	4915794.0	0.220741	Y
3	ICIS 680-758737/15	20.0	4.020898	50.0	4703166.0	0.201045	Y
4	IC 680-758737/14	50.0	9.750732	50.0	4573349.0	0.195015	Y
5	IC 680-758737/13	80.0	14.877404	50.0	4582147.0	0.185968	Y
6	IC 680-758737/12	100.0	19.730281	50.0	4362652.0	0.197303	Y



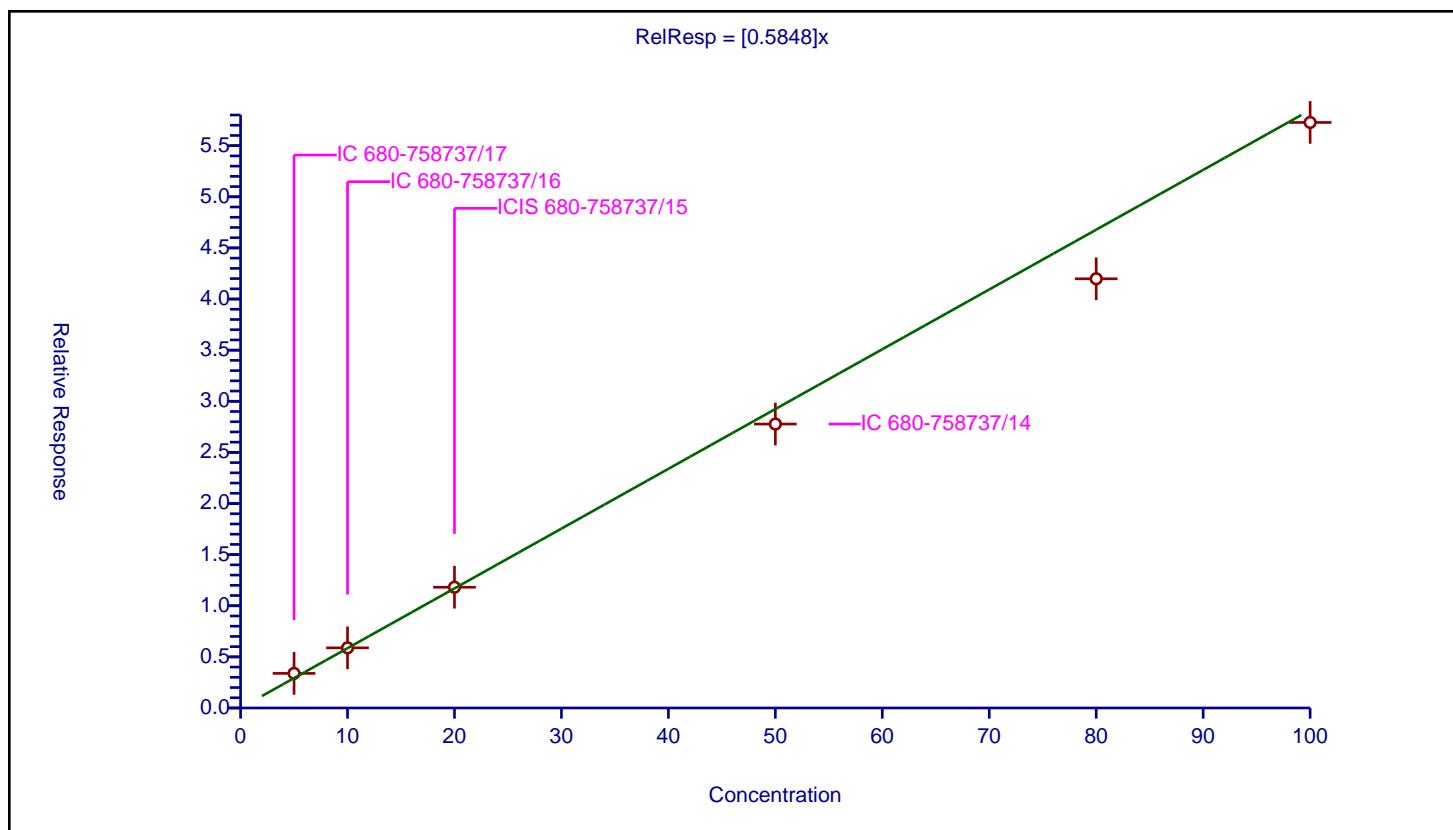
Calibration

/ 2-(2-Butoxyethoxy)ethanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5848
Error Coefficients	
Standard Error:	3100000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	3.384005	50.0	4848013.0	0.676801	Y
2	IC 680-758737/16	10.0	5.8838	50.0	4915794.0	0.58838	Y
3	ICIS 680-758737/15	20.0	11.811427	50.0	4703166.0	0.590571	Y
4	IC 680-758737/14	50.0	27.771935	50.0	4573349.0	0.555439	Y
5	IC 680-758737/13	80.0	41.982721	50.0	4582147.0	0.524784	Y
6	IC 680-758737/12	100.0	57.272572	50.0	4362652.0	0.572726	Y



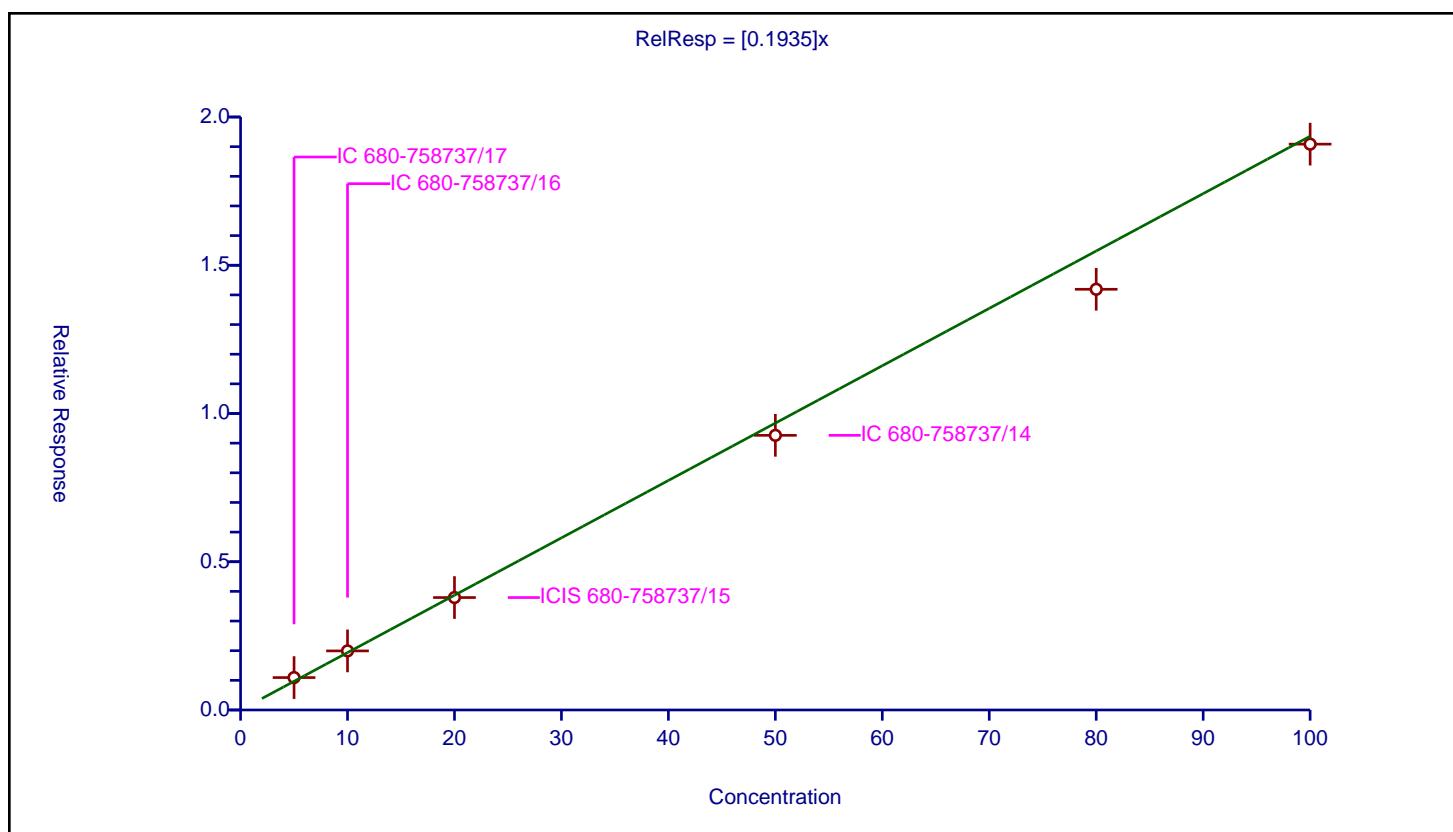
Calibration

/ 2,2'-Oxybisethanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1935
Error Coefficients	
Standard Error:	1040000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	1.093293	50.0	4848013.0	0.218659	Y
2	IC 680-758737/16	10.0	1.992822	50.0	4915794.0	0.199282	Y
3	ICIS 680-758737/15	20.0	3.792658	50.0	4703166.0	0.189633	Y
4	IC 680-758737/14	50.0	9.263627	50.0	4573349.0	0.185273	Y
5	IC 680-758737/13	80.0	14.190084	50.0	4582147.0	0.177376	Y
6	IC 680-758737/12	100.0	19.085066	50.0	4362652.0	0.190851	Y



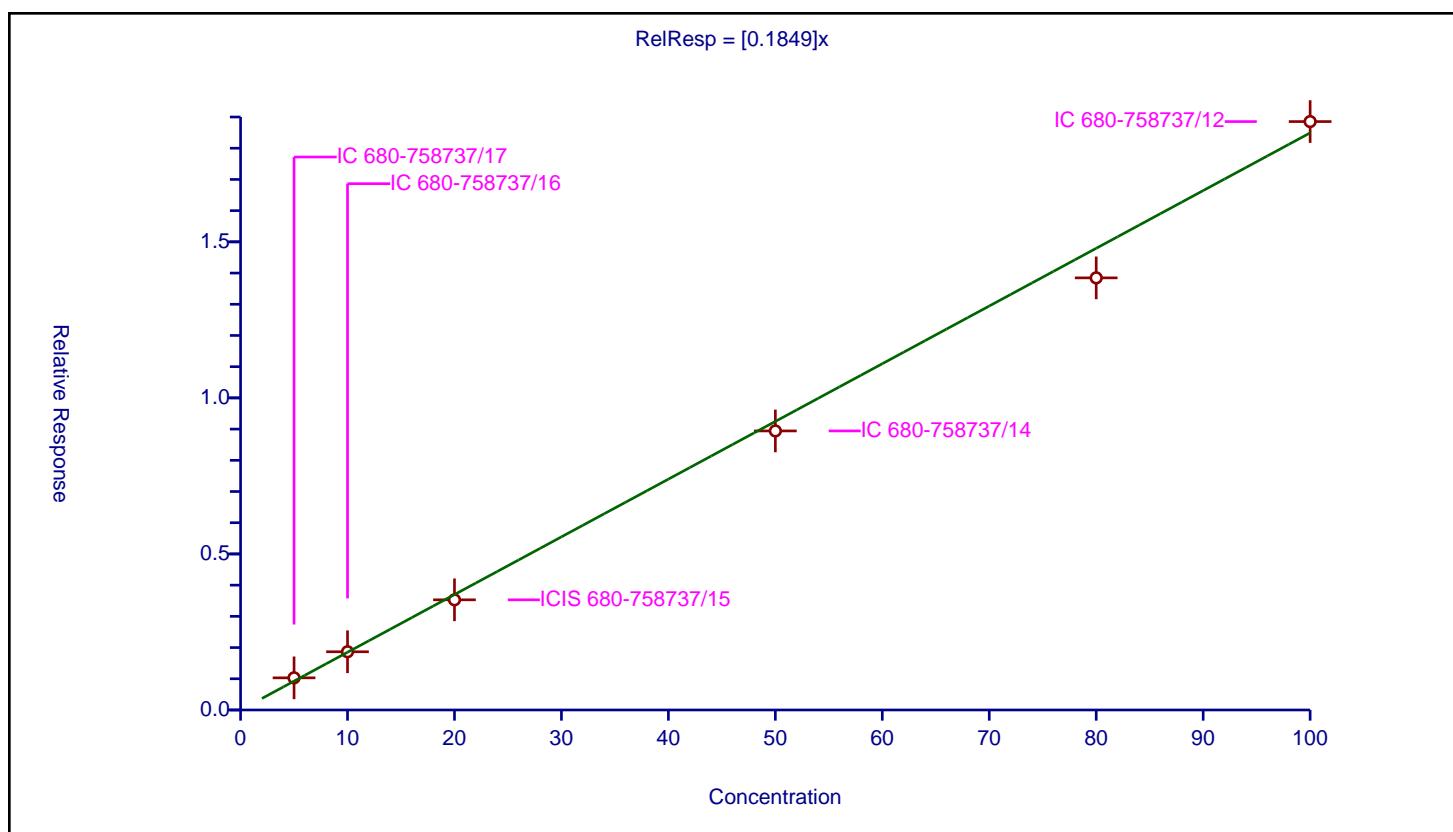
Calibration

/ Triethylene Glycol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1849
Error Coefficients	
Standard Error:	1010000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	5.0	1.029793	50.0	4848013.0	0.205959	Y
2	IC 680-758737/16	10.0	1.865863	50.0	4915794.0	0.186586	Y
3	ICIS 680-758737/15	20.0	3.530058	50.0	4703166.0	0.176503	Y
4	IC 680-758737/14	50.0	8.941249	50.0	4573349.0	0.178825	Y
5	IC 680-758737/13	80.0	13.845846	50.0	4582147.0	0.173073	Y
6	IC 680-758737/12	100.0	18.854266	50.0	4362652.0	0.188543	Y



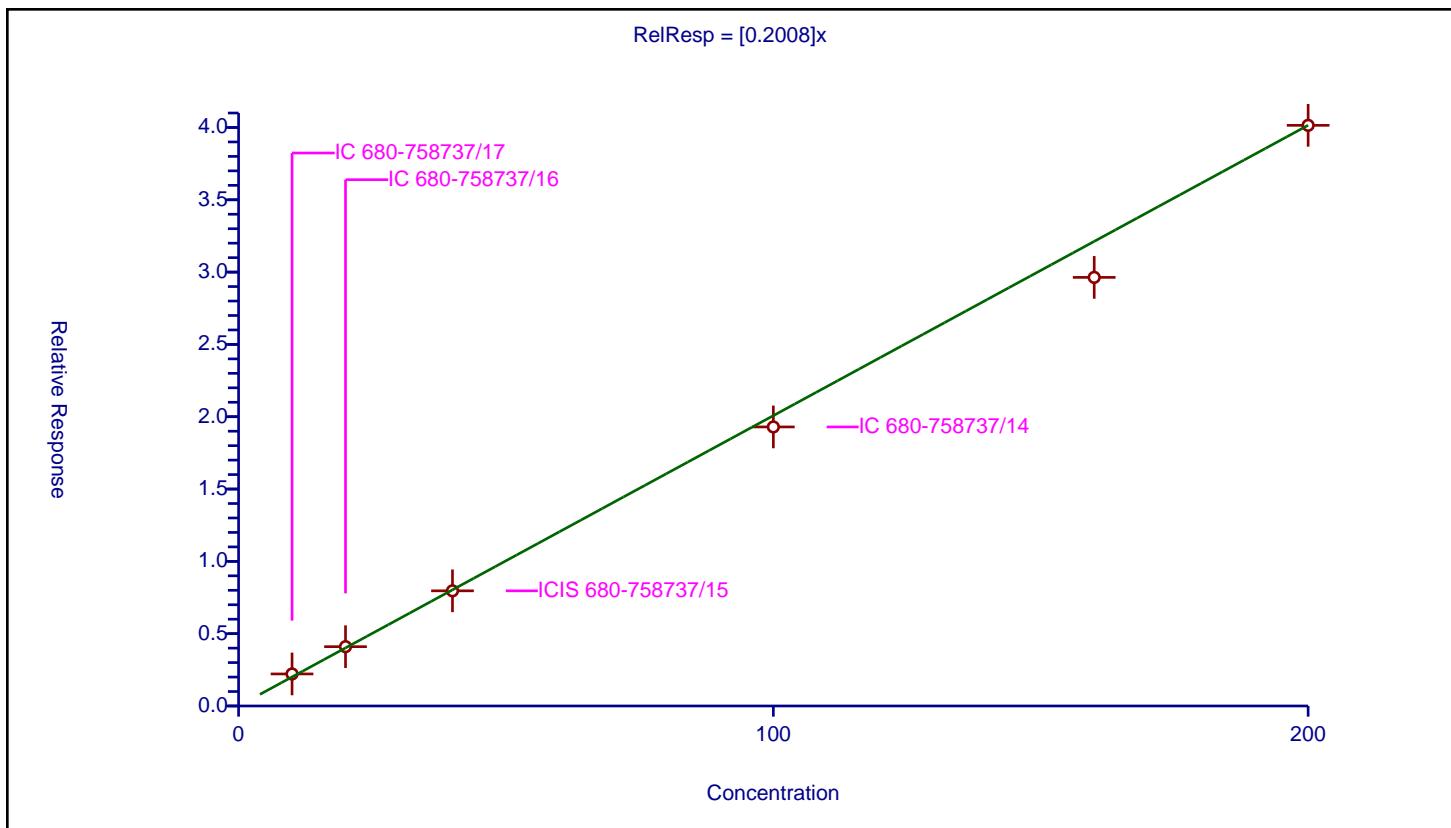
Calibration

/ Tetraethylene Glycol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2008
Error Coefficients	
Standard Error:	2170000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-758737/17	10.0	2.216228	50.0	4848013.0	0.221623	Y
2	IC 680-758737/16	20.0	4.101169	50.0	4915794.0	0.205058	Y
3	ICIS 680-758737/15	40.0	7.962434	50.0	4703166.0	0.199061	Y
4	IC 680-758737/14	100.0	19.293892	50.0	4573349.0	0.192939	Y
5	IC 680-758737/13	160.0	29.633958	50.0	4582147.0	0.185212	Y
6	IC 680-758737/12	200.0	40.148767	50.0	4362652.0	0.200744	Y



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Lab Sample ID: ICV 680-758737/18 Calibration Date: 01/11/2023 21:37

Instrument ID: CVGG2 Calib Start Date: 01/11/2023 19:18

GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/11/2023 21:14

Lab File ID: GA11018.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.7357	0.6851		18.6	20.0	-6.9	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.7204	0.6634		18.4	20.0	-7.9	20.0
2-Butoxyethanol	Ave	0.7988	0.7754		19.4	20.0	-2.9	20.0
Dipropylene Glycol Methyl Ether	Qua		0.0482		19.1	20.0	-4.4	20.0
Propylene glycol	Ave	0.2550	0.2110		16.5	20.0	-17.3	20.0
Ethylene glycol	Ave	0.2086	0.1803		17.3	20.0	-13.5	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5848	0.5163		17.7	20.0	-11.7	20.0
2,2'-Oxybisethanol	Ave	0.1935	0.1552		16.0	20.0	-19.8	20.0
Triethylene Glycol	Ave	0.1849	0.1636		17.7	20.0	-11.5	20.0
Tetraethylene Glycol	Ave	0.2008	0.1723		34.3	40.0	-14.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-122104-1
SDG No.: _____
Lab Sample ID: ICV 680-758737/18 Calibration Date: 01/11/2023 21:37
Instrument ID: CVGG2 Calib Start Date: 01/11/2023 19:18
GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/11/2023 21:14
Lab File ID: GA11018.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.12	3.06	3.18
4-Hydroxy-4-methyl-2-pentanone	3.71	3.65	3.80
2-Butoxyethanol	4.03	3.95	4.11
Dipropylene Glycol Methyl Ether	5.46	5.36	5.58
Propylene glycol	6.33	6.21	6.47
Ethylene glycol	6.78	6.65	6.92
2-(2-Butoxyethoxy)ethanol	8.76	8.58	8.93
2,2'-Oxybisethanol	9.74	9.54	9.93
Triethylene Glycol	10.75	10.54	10.97
Tetraethylene Glycol	12.02	11.78	12.26

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11018.D
 Lims ID: icv gly
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Jan-2023 21:37:49 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083226-018
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 12-Jan-2023 12:41:36 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1634

First Level Reviewer: SWK1 Date: 11-Jan-2023 22:04:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy						
3.116	3.121	-0.005	1356430	20.0	18.6	
2 4-Hydroxy-4-methyl-2-pentanone						
3.713	3.724	-0.011	1313425	20.0	18.4	
3 2-Butoxyethanol						
4.029	4.031	-0.002	1535224	20.0	19.4	
* 4 n-Heptyl Alcohol						
4.506	4.504	0.002	4949602	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.464	5.469	-0.005	95497	20.0	19.1	
6 Propylene glycol						
6.334	6.341	-0.007	417674	20.0	16.5	
7 Ethylene glycol						
6.779	6.782	-0.003	356978	20.0	17.3	
8 2-(2-Butoxyethoxy)ethanol						
8.760	8.758	0.002	1022106	20.0	17.7	
9 2,2'-Oxybisethanol						
9.739	9.737	0.002	307185	20.0	16.0	
10 Triethylene Glycol					M	
10.753	10.753	0.000	323915	20.0	17.7	M
11 Tetraethylene Glycol						
12.016	12.016	0.000	682159	40.0	34.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GlyICV_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

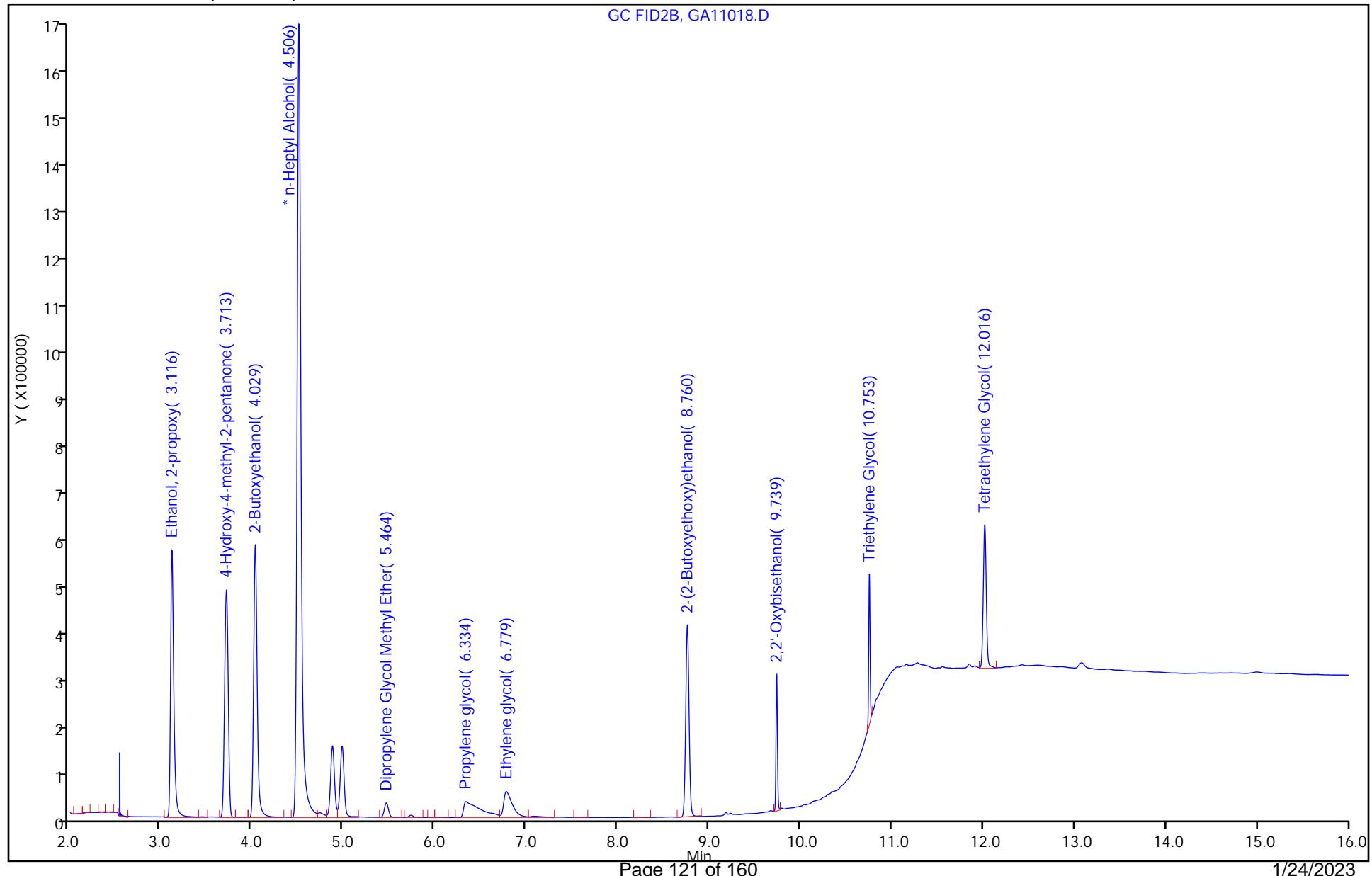
Report Date: 12-Jan-2023 12:41:37

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230111-83226.b\\GA11018.D
Injection Date: 11-Jan-2023 21:37:49 Instrument ID: CVGG2
Lims ID: icv_gly Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 18



Eurofins Savannah

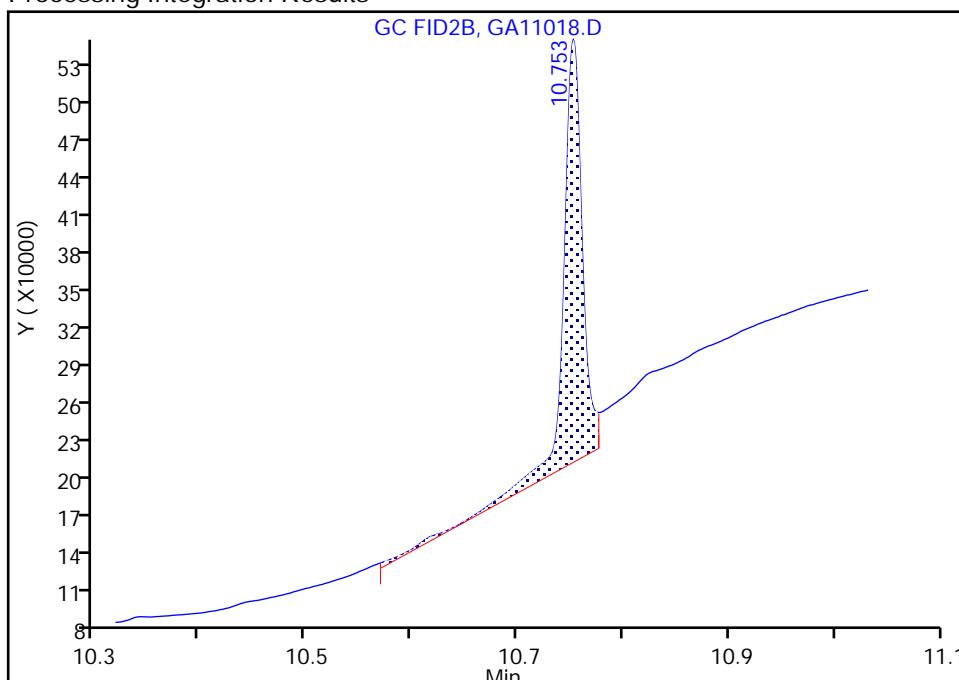
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11018.D
 Injection Date: 11-Jan-2023 21:37:49 Instrument ID: CVGG2
 Lims ID: icv gly
 Client ID:
 Operator ID: ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 8015_GLY_VGG Limit Group: 8015C_DAI
 Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

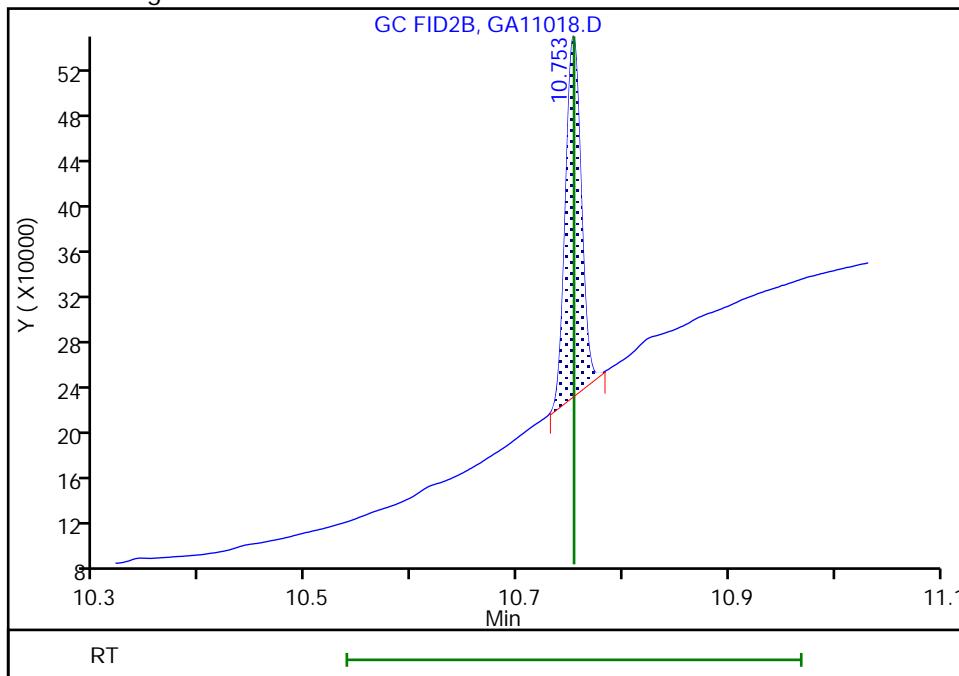
RT: 10.75
 Area: 408495
 Amount: 22.315925
 Amount Units: ug/ml

Processing Integration Results



RT: 10.75
 Area: 323915
 Amount: 17.695352
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 11-Jan-2023 22:02:48

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Lab Sample ID: CCVIS 680-759183/5 Calibration Date: 01/16/2023 13:10

Instrument ID: CVGG2 Calib Start Date: 01/11/2023 19:18

GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/11/2023 21:14

Lab File ID: GA16005.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.7357	0.6284		17.1	20.0	-14.6	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.7204	0.6021		16.7	20.0	-16.4	20.0
2-Butoxyethanol	Ave	0.7988	0.6929		17.3	20.0	-13.3	20.0
Dipropylene Glycol Methyl Ether	Qua		0.0444		17.6	20.0	-12.0	20.0
Propylene glycol	Ave	0.2550	0.2408		18.9	20.0	-5.6	20.0
Ethylene glycol	Ave	0.2086	0.2128		20.4	20.0	2.0	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5848	0.4858		16.6	20.0	-16.9	20.0
2,2'-Oxybisethanol	Ave	0.1935	0.2030		21.0	20.0	4.9	20.0
Triethylene Glycol	Ave	0.1849	0.2542		27.5	20.0	37.5*	20.0
Tetraethylene Glycol	Ave	0.2008	0.2240		44.6	40.0	11.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-122104-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-759183/5 Calibration Date: 01/16/2023 13:10
 Instrument ID: CVGG2 Calib Start Date: 01/11/2023 19:18
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/11/2023 21:14
 Lab File ID: GA16005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.12	3.06	3.18
4-Hydroxy-4-methyl-2-pentanone	3.71	3.64	3.79
2-Butoxyethanol	4.03	3.95	4.11
Dipropylene Glycol Methyl Ether	5.46	5.35	5.57
Propylene glycol	6.43	6.30	6.56
Ethylene glycol	6.80	6.67	6.94
2-(2-Butoxyethoxy)ethanol	8.76	8.58	8.93
2,2'-Oxybisethanol	9.74	9.54	9.93
Triethylene Glycol	10.75	10.54	10.97
Tetraethylene Glycol	12.02	11.78	12.26

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16005.D
 Lims ID: ccvis g3
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 16-Jan-2023 13:10:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:16:09 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 17:14:00

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Ethanol, 2-propoxy						
3.121	3.121	0.000	1114734	20.0	17.1	
2 4-Hydroxy-4-methyl-2-pentanone						
3.714	3.714	0.000	1067941	20.0	16.7	
3 2-Butoxyethanol						
4.030	4.030	0.000	1229022	20.0	17.3	
* 4 n-Heptyl Alcohol						
4.506	4.506	0.000	4434601	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.462	5.462	0.000	78769	20.0	17.6	
6 Propylene glycol						
6.429	6.429	0.000	427109	20.0	18.9	
7 Ethylene glycol						
6.801	6.801	0.000	377404	20.0	20.4	
8 2-(2-Butoxyethoxy)ethanol						
8.758	8.758	0.000	861695	20.0	16.6	
9 2,2'-Oxybisethanol						
9.738	9.738	0.000	360107	20.0	21.0	
10 Triethylene Glycol						
10.754	10.754	0.000	450896	20.0	27.5	
11 Tetraethylene Glycol						
12.016	12.016	0.000	794631	40.0	44.6	

QC Flag Legend

Processing Flags

Reagents:

SG_Gly_CAL_00052

Amount Added: 10.00

Units: uL

SG,GLY,ISTD,00105

Amount Added: 10.00

Units: uL

Run Reagent

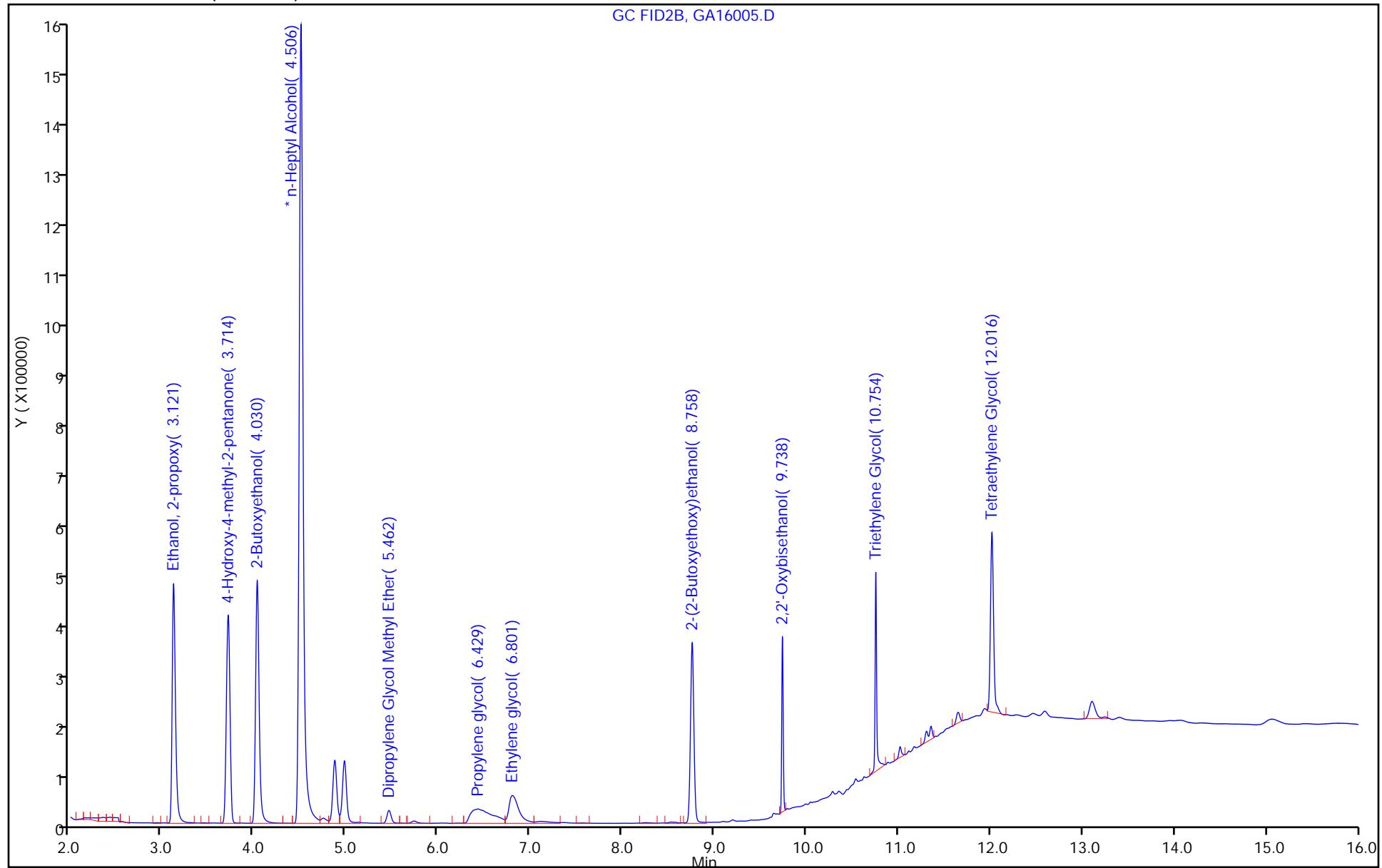
Report Date: 16-Jan-2023 17:16:09

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16005.D
Injection Date: 16-Jan-2023 13:10:00 Instrument ID: CVGG2
Lims ID: ccvis g3 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 5



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Lab Sample ID: CCV 680-759183/24 Calibration Date: 01/16/2023 20:32

Instrument ID: CVGG2 Calib Start Date: 01/11/2023 19:18

GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/11/2023 21:14

Lab File ID: GA16024.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.7357	0.6800		18.5	20.0	-7.6	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.7204	0.6452		17.9	20.0	-10.4	20.0
2-Butoxyethanol	Ave	0.7988	0.7729		19.4	20.0	-3.2	20.0
Dipropylene Glycol Methyl Ether	Qua		0.0457		18.1	20.0	-9.4	20.0
Propylene glycol	Ave	0.2550	0.0176		1.38	20.0	-93.1*	20.0
Ethylene glycol	Ave	0.2086	0.1325		12.7	20.0	-36.5*	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5848	0.4988		17.1	20.0	-14.7	20.0
2,2'-Oxybisethanol	Ave	0.1935	0.1449		15.0	20.0	-25.1*	20.0
Triethylene Glycol	Ave	0.1849	0.1761		19.0	20.0	-4.8	20.0
Tetraethylene Glycol	Ave	0.2008	0.1332		26.5	40.0	-33.7*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-122104-1
SDG No.: _____
Lab Sample ID: CCV 680-759183/24 Calibration Date: 01/16/2023 20:32
Instrument ID: CVGG2 Calib Start Date: 01/11/2023 19:18
GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 01/11/2023 21:14
Lab File ID: GA16024.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.12	3.05	3.18
4-Hydroxy-4-methyl-2-pentanone	3.71	3.64	3.79
2-Butoxyethanol	4.02	3.94	4.10
Dipropylene Glycol Methyl Ether	5.46	5.35	5.57
Propylene glycol	6.42	6.29	6.55
Ethylene glycol	6.81	6.67	6.94
2-(2-Butoxyethoxy)ethanol	8.75	8.58	8.93
2,2'-Oxybisethanol	9.74	9.54	9.93
Triethylene Glycol	10.75	10.54	10.97
Tetraethylene Glycol	12.02	11.78	12.26

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16024.D
 Lims ID: ccvis g3
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 16-Jan-2023 20:32:19 ALS Bottle#: 0 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-024
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 17-Jan-2023 11:06:27 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1657

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy						
3.115	3.115	0.000	1379074	20.0	18.5	
2 4-Hydroxy-4-methyl-2-pentanone						
3.713	3.713	0.000	1308523	20.0	17.9	
3 2-Butoxyethanol						
4.024	4.024	0.000	1567352	20.0	19.4	
* 4 n-Heptyl Alcohol						
4.497	4.497	0.000	5069907	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.459	5.459	0.000	92693	20.0	18.1	
6 Propylene glycol						
6.416	6.416	0.000	35726	20.0	1.38	
7 Ethylene glycol						
6.807	6.807	0.000	268622	20.0	12.7	
8 2-(2-Butoxyethoxy)ethanol						
8.750	8.750	0.000	1011611	20.0	17.1	
9 2,2'-Oxybisethanol						
9.739	9.739	0.000	293942	20.0	15.0	
10 Triethylene Glycol						
10.754	10.754	0.000	357159	20.0	19.0	
11 Tetraethylene Glycol						
12.017	12.017	0.000	540248	40.0	26.5	

Reagents:

SG_Gly_CAL_00052	Amount Added: 10.00	Units: uL	
SG,GLY,ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent

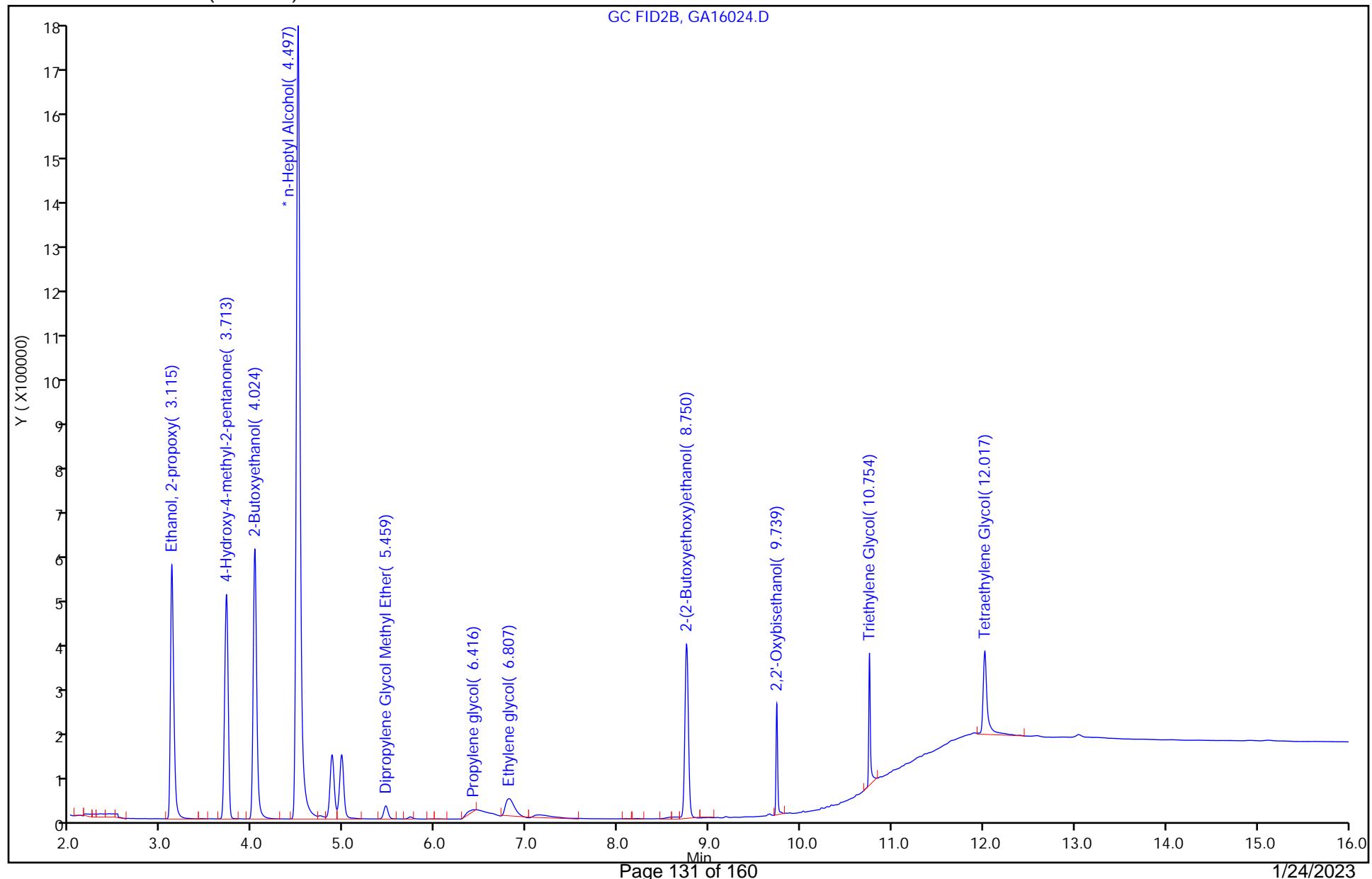
Report Date: 17-Jan-2023 11:06:27

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16024.D
Injection Date: 16-Jan-2023 20:32:19 Instrument ID: CVGG2
Lims ID: ccvis g3 Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 24



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 680-759183/10

Matrix: Water Lab File ID: GA16010.D

Analysis Method: 8015C GLY Date Collected: _____

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 15:06

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16010.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 16-Jan-2023 15:06:27 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-010
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:15:54 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 17:15:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol
 4.505 4.506 -0.001 5589716 50.0 50.0
 8 2-(2-Butoxyethoxy)ethanol 7
 8.759 8.758 0.001 5715 0.0874 7
 LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ITSD_00105 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jan-2023 17:16:07

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16010.D

Injection Date: 16-Jan-2023 15:06:27

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

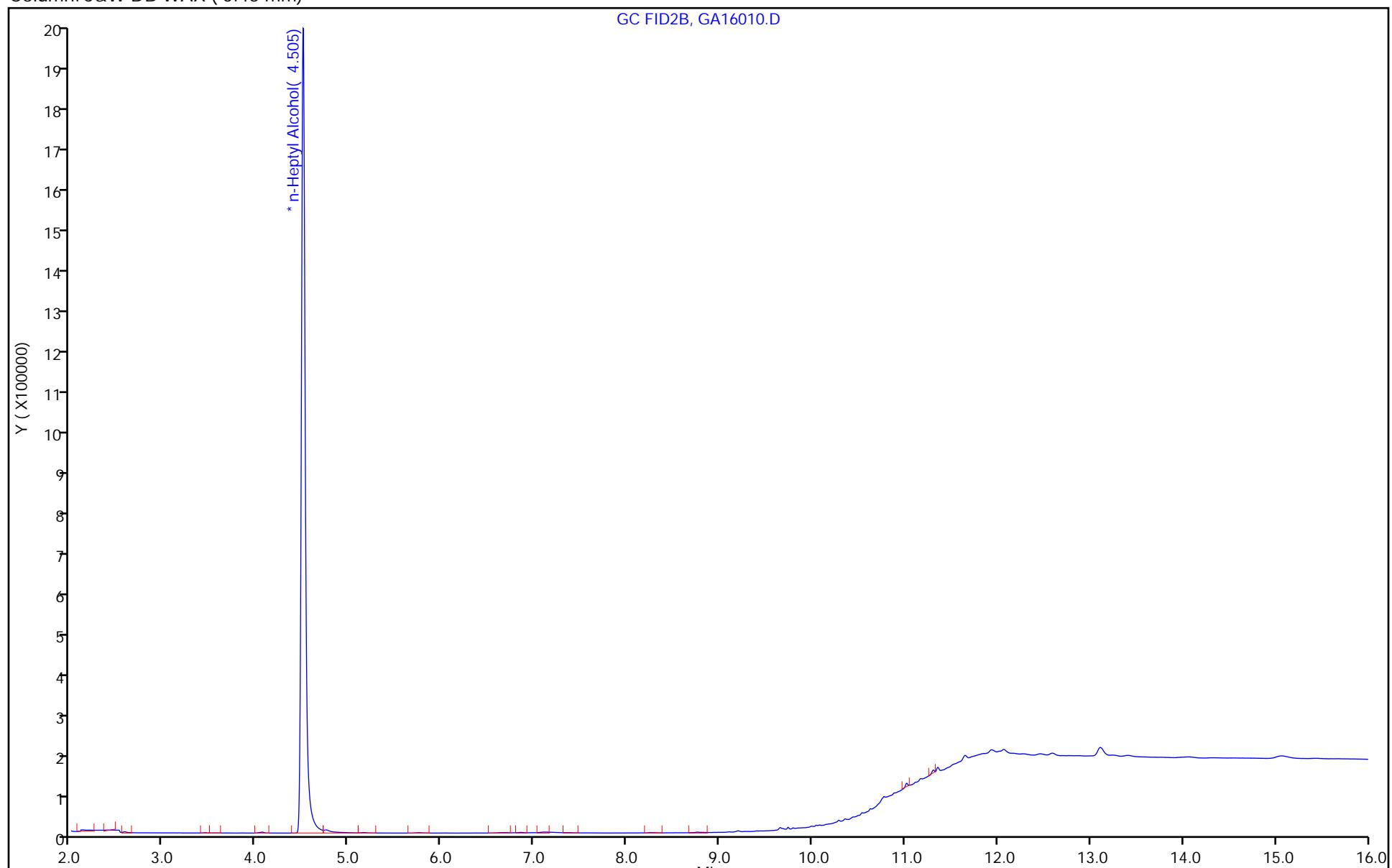
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-122104-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 680-759183/6
Matrix: Water Lab File ID: GA16006.D
Analysis Method: 8015C GLY Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 13:33
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.0		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16006.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 16-Jan-2023 13:33:14 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-006
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:16:09 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Ethanol, 2-propoxy						
3.119	3.121	-0.002	1195763	20.0	18.9	
2 4-Hydroxy-4-methyl-2-pentanone						
3.713	3.714	-0.001	1182780	20.0	19.1	
3 2-Butoxyethanol						
4.028	4.030	-0.002	1309971	20.0	19.1	
* 4 n-Heptyl Alcohol						
4.503	4.506	-0.003	4304414	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.463	5.462	0.001	88527	20.0	20.4	
6 Propylene glycol						
6.425	6.429	-0.004	473418	20.0	21.6	
7 Ethylene glycol						
6.803	6.801	0.002	420392	20.0	23.4	
8 2-(2-Butoxyethoxy)ethanol						
8.757	8.758	-0.001	958804	20.0	19.0	
9 2,2'-Oxybisethanol						
9.738	9.738	0.000	381000	20.0	22.9	
10 Triethylene Glycol						
10.753	10.754	-0.001	400891	20.0	25.2	
11 Tetraethylene Glycol						
12.016	12.016	0.000	792159	40.0	45.8	

Reagents:

SG_GlyICV_00052	Amount Added: 10.00	Units: uL	
SG,GLY,ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent

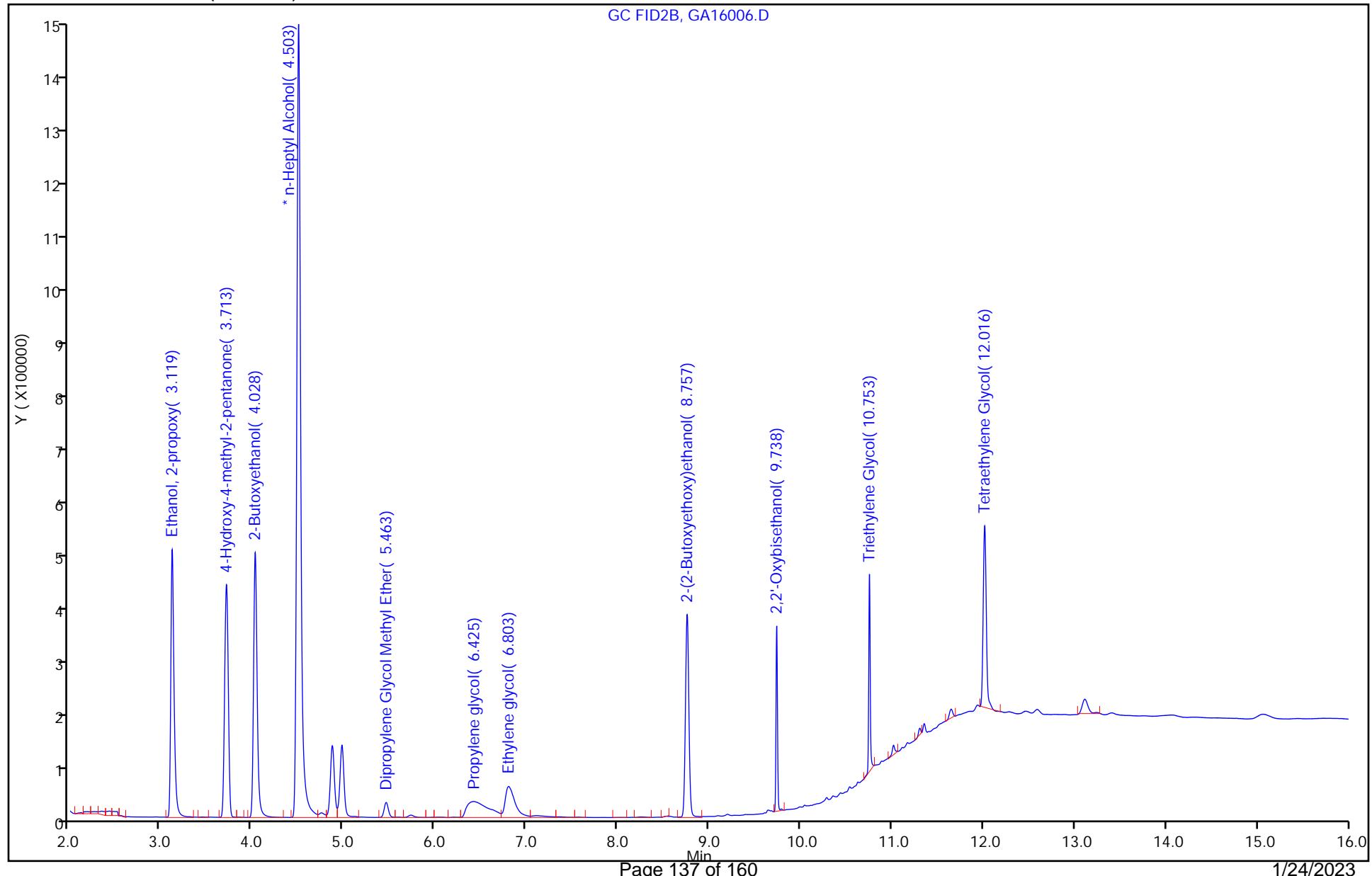
Report Date: 16-Jan-2023 17:16:10

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16006.D
Injection Date: 16-Jan-2023 13:33:14 Instrument ID: CVGG2
Lims ID: lcs Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 6



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-122104-1
SDG No.:
Client Sample ID: Lab Sample ID: LCSD 680-759183/7
Matrix: Water Lab File ID: GA16007.D
Analysis Method: 8015C GLY Date Collected:
Extraction Method: Date Extracted:
Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 13:56
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: % Solids: GPC Cleanup: (Y/N) N
Cleanup Factor:
Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	18.8		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16007.D
 Lims ID: lcSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 16-Jan-2023 13:56:36 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-007
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:16:09 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy						
3.113	3.121	-0.008	958789	20.0	16.4	
2 4-Hydroxy-4-methyl-2-pentanone						
3.703	3.714	-0.011	965214	20.0	16.8	
3 2-Butoxyethanol						
4.027	4.030	-0.003	1056609	20.0	16.6	
* 4 n-Heptyl Alcohol						
4.510	4.506	0.004	3977995	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.459	5.462	-0.003	79485	20.0	19.8	
6 Propylene glycol						
6.419	6.429	-0.010	561802	20.0	27.7	
7 Ethylene glycol						
6.801	6.801	0.000	514974	20.0	31.0	
8 2-(2-Butoxyethoxy)ethanol						
8.756	8.758	-0.002	876972	20.0	18.8	
9 2,2'-Oxybisethanol						
9.738	9.738	0.000	486697	20.0	31.6	
10 Triethylene Glycol						
10.754	10.754	0.000	494813	20.0	33.6	
11 Tetraethylene Glycol						
12.016	12.016	0.000	990696	40.0	62.0	

Reagents:

SG_GlyICV_00052	Amount Added: 10.00	Units: uL	
SG,GLY,ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent

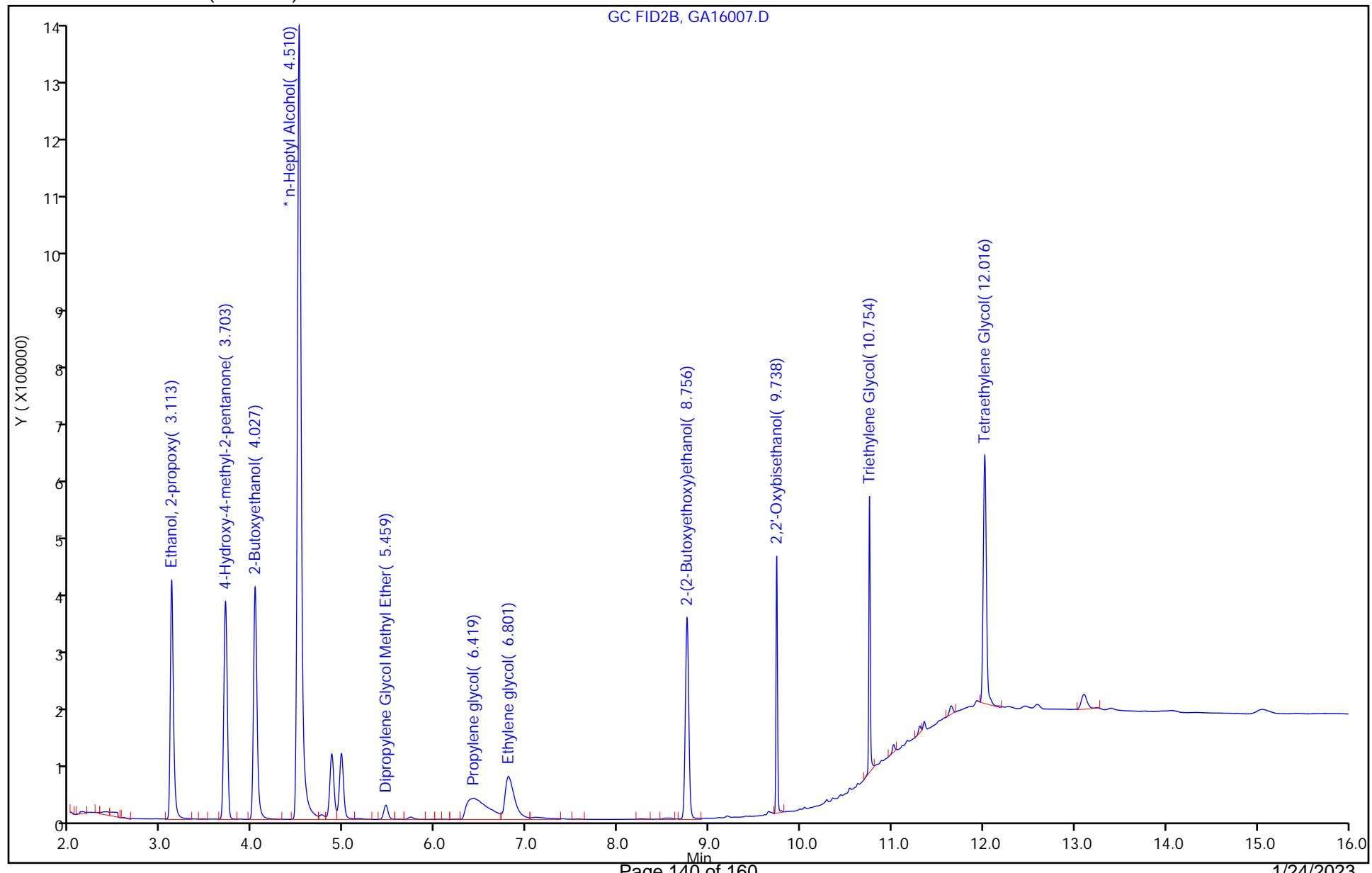
Report Date: 16-Jan-2023 17:16:10

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16007.D
Injection Date: 16-Jan-2023 13:56:36 Instrument ID: CVGG2
Lims ID: lcsd Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 7



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW03-WGN01LF-2301W1 Lab Sample ID: 580-122104-1 MS
MS _____

Matrix: Water Lab File ID: GA16021.D

Analysis Method: 8015C GLY Date Collected: 01/05/2023 13:55

Extraction Method: _____ Date Extracted: _____

Sample wt/vol: 1 (mL) Date Analyzed: 01/16/2023 19:22

Con. Extract Vol.: 1 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	20.0		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16021.D
 Lims ID: 580-122104-C-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 16-Jan-2023 19:22:32 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 680-0083281-021 Instrument ID: CVGG2
 Operator ID:
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Jan-2023 17:41:55 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1643

First Level Reviewer: SWK1 Date: 16-Jan-2023 19:47:10

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol
 4.499 4.506 -0.007 4719187 50.0 50.0
 8 2-(2-Butoxyethoxy)ethanol
 8.756 8.758 -0.002 1103045 20.0 20.0

QC Flag Legend

Processing Flags

Reagents:

SG_GlyICV_00052	Amount Added: 10.00	Units: uL
SG,GLY,ISTD,00105	Amount Added: 10.00	Units: uL Run Reagent

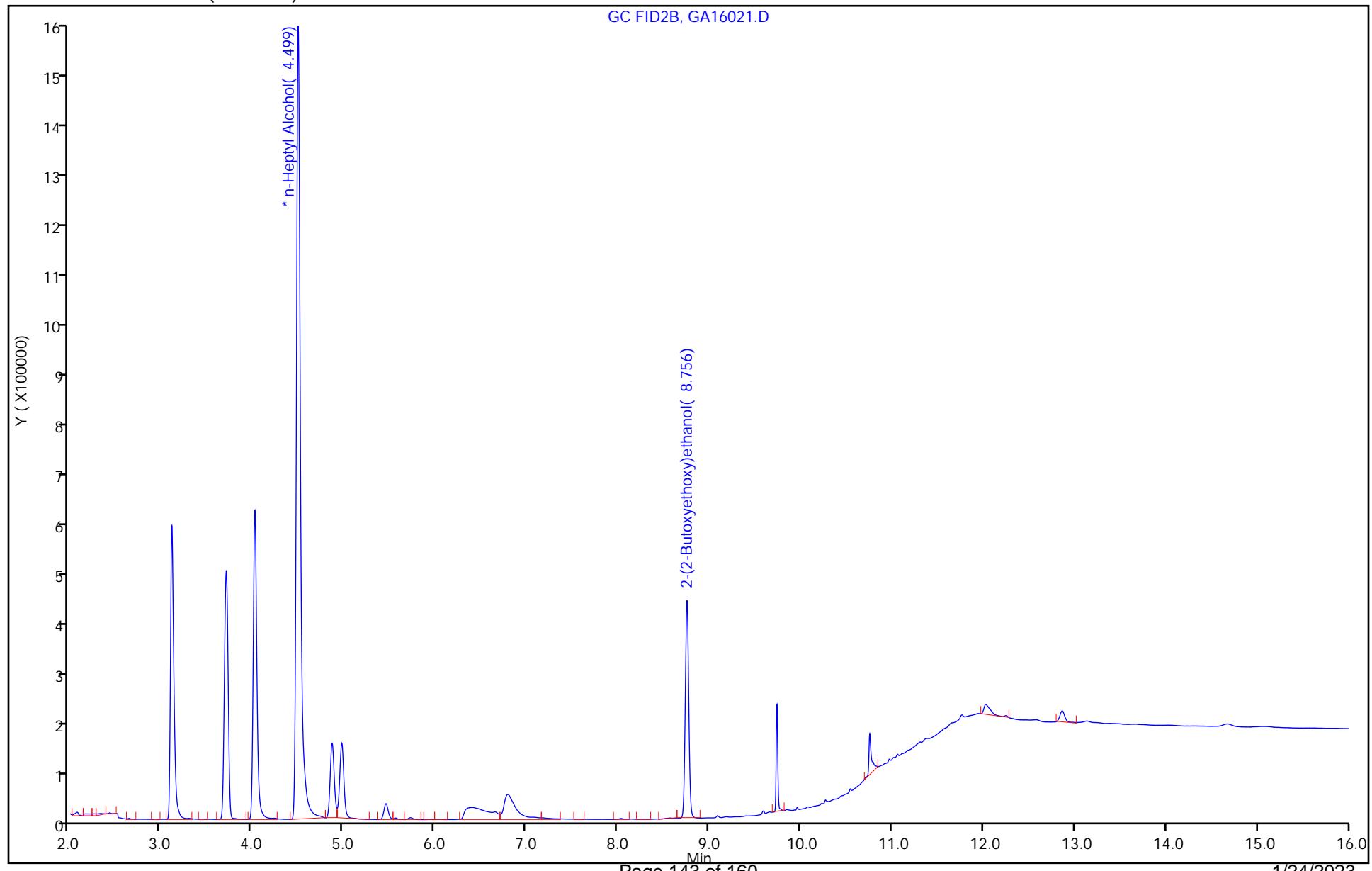
Report Date: 16-Jan-2023 19:47:10

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16021.D
Injection Date: 16-Jan-2023 19:22:32 Instrument ID: CVGG2
Lims ID: 580-122104-C-1 MS Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 21



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.: _____

Client Sample ID: AF-RHMW03-WGN01LF-2301W1
MSD

Lab Sample ID: 580-122104-1 MSD

Matrix: Water

Lab File ID: GA16022.D

Analysis Method: 8015C GLY

Date Collected: 01/05/2023 13:55

Extraction Method: _____

Date Extracted: _____

Sample wt/vol: 1 (mL)

Date Analyzed: 01/16/2023 19:45

Con. Extract Vol.: 1 (mL)

Dilution Factor: 1

Injection Volume: 1 (uL)

GC Column: J&W DB WAX ID: 0.45 (mm)

% Moisture: _____ % Solids: _____

GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 759183

Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.1		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\GA16022.D
 Lims ID: 580-122104-C-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 16-Jan-2023 19:45:52 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083281-022
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230116-83281.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 17-Jan-2023 01:28:34 Calib Date: 11-Jan-2023 21:14:29
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230111-83226.b\GA11017.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1657

First Level Reviewer: SWK1 Date: 17-Jan-2023 11:06:10

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

* 4 n-Heptyl Alcohol
 4.495 4.498 -0.003 4719324 50.0 50.0
 8 2-(2-Butoxyethoxy)ethanol
 8.755 8.754 0.001 1056884 20.0 19.1

QC Flag Legend

Processing Flags

Reagents:

SG_GlyICV_00052	Amount Added: 10.00	Units: uL
SG,GLY,ISTD,00105	Amount Added: 10.00	Units: uL
		Run Reagent

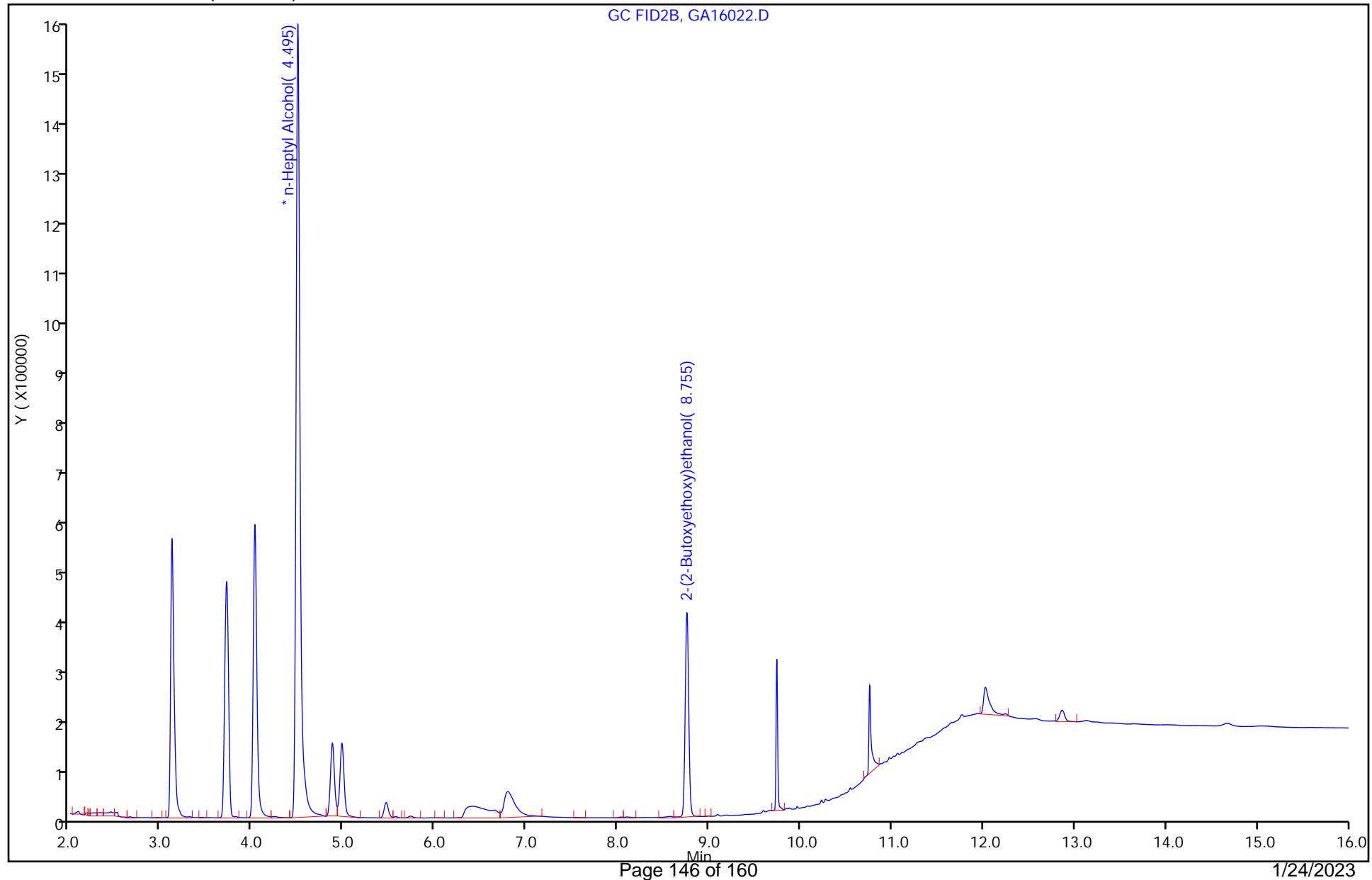
Report Date: 17-Jan-2023 11:06:10

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Savannah

Data File: \\chromfs\\Savannah\\ChromData\\CVGG2\\20230116-83281.b\\GA16022.D
Injection Date: 16-Jan-2023 19:45:52 Instrument ID: CVGG2
Lims ID: 580-122104-C-1 MSD Operator ID:
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

Worklist Smp#: 22



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-122104-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 01/11/2023 19:18Analysis Batch Number: 758737 End Date: 01/12/2023 05:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-758737/12		01/11/2023 19:18	1	GA11012.D	J&W DB WAX 0.45 (mm)
IC 680-758737/13		01/11/2023 19:41	1	GA11013.D	J&W DB WAX 0.45 (mm)
IC 680-758737/14		01/11/2023 20:04	1	GA11014.D	J&W DB WAX 0.45 (mm)
ICIS 680-758737/15		01/11/2023 20:28	1	GA11015.D	J&W DB WAX 0.45 (mm)
IC 680-758737/16		01/11/2023 20:51	1	GA11016.D	J&W DB WAX 0.45 (mm)
IC 680-758737/17		01/11/2023 21:14	1	GA11017.D	J&W DB WAX 0.45 (mm)
ICV 680-758737/18 CCV		01/11/2023 21:37	1	GA11018.D	J&W DB WAX 0.45 (mm)
ZZZZZ		01/11/2023 22:13	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/11/2023 22:36	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/11/2023 23:45	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 00:09	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 00:32	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 00:55	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 01:18	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 01:42	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 02:05	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 02:28	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 02:51	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 03:15	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 03:38	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 04:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/12/2023 04:24	1		J&W DB WAX 0.45 (mm)
CCV 680-758737/37		01/12/2023 05:11	1		J&W DB WAX 0.45 (mm)

8015C GLY

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.:

Instrument ID: CVGG2

Start Date: 01/16/2023 13:10

Analysis Batch Number: 759183

End Date: 01/17/2023 02:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 680-759183/5		01/16/2023 13:10	1	GA16005.D	J&W DB WAX 0.45 (mm)
LCS 680-759183/6		01/16/2023 13:33	1	GA16006.D	J&W DB WAX 0.45 (mm)
LCSD 680-759183/7		01/16/2023 13:56	1	GA16007.D	J&W DB WAX 0.45 (mm)
MB 680-759183/10		01/16/2023 15:06	1	GA16010.D	J&W DB WAX 0.45 (mm)
580-122104-1	AF-RHMW03-WGN01LF-230 1W1	01/16/2023 15:29	1	GA16011.D	J&W DB WAX 0.45 (mm)
580-122104-2	AF-RHMW02-WGN01LF-230 1W1	01/16/2023 15:52	1	GA16012.D	J&W DB WAX 0.45 (mm)
580-122104-3	AF-RHMW225401-WGN01B- 2301W1	01/16/2023 16:16	1	GA16013.D	J&W DB WAX 0.45 (mm)
580-122104-4	AF-RHMW17-WGN01LF-230 1W1	01/16/2023 16:39	1	GA16014.D	J&W DB WAX 0.45 (mm)
580-122104-5	AF-RHMW17-WQFB01-2301 W1	01/16/2023 17:02	1	GA16015.D	J&W DB WAX 0.45 (mm)
580-122104-6	AF-RHMW17D-WGN01LF-23 01W1	01/16/2023 17:26	1	GA16016.D	J&W DB WAX 0.45 (mm)
580-122104-7	AF-RHMW17D-WQEB01-230 1W1	01/16/2023 17:49	1	GA16017.D	J&W DB WAX 0.45 (mm)
580-122104-8	AF-RHMW03-WGN01LF-230 1W2	01/16/2023 18:12	1	GA16018.D	J&W DB WAX 0.45 (mm)
580-122104-9	AF-RHMW02-WGN01LF-230 1W2	01/16/2023 18:36	1	GA16019.D	J&W DB WAX 0.45 (mm)
ZZZZZ		01/16/2023 18:59	1		J&W DB WAX 0.45 (mm)
580-122104-1 MS	AF-RHMW03-WGN01LF-230 1W1 MS	01/16/2023 19:22	1	GA16021.D	J&W DB WAX 0.45 (mm)
580-122104-1 MSD	AF-RHMW03-WGN01LF-230 1W1 MSD	01/16/2023 19:45	1	GA16022.D	J&W DB WAX 0.45 (mm)
CCV 680-759183/24		01/16/2023 20:32	1	GA16024.D	J&W DB WAX 0.45 (mm)
ZZZZZ		01/16/2023 21:42	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/16/2023 22:05	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/16/2023 22:28	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/16/2023 22:51	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/16/2023 23:15	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/16/2023 23:38	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/17/2023 00:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/17/2023 00:24	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/17/2023 00:48	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/17/2023 01:11	1		J&W DB WAX 0.45 (mm)
ZZZZZ		01/17/2023 01:34	1		J&W DB WAX 0.45 (mm)
CCV 680-759183/39		01/17/2023 02:21	1		J&W DB WAX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.:

Batch Number: 758737

Batch Start Date: 01/11/23 19:18

Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY

Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Final Amount	SG_Gly_CAL_00052	SG_GLY_ISTD_00105	SG_GlyICV_00052		
IC 680-758737/12		8015C GLY		1 mL	50 uL	10 uL			
IC 680-758737/13		8015C GLY		1 mL	40 uL	10 uL			
IC 680-758737/14		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-758737/15		8015C GLY		1 mL	10 uL	10 uL			
IC 680-758737/16		8015C GLY		1 mL	5 uL	10 uL			
IC 680-758737/17		8015C GLY		1 mL	2.5 uL	10 uL			
ICV 680-758737/18 CCV		8015C GLY		1 mL		10 uL	10 uL		

Batch Notes

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Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8015C GLY

Page 1 of 1

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah

Job No.: 580-122104-1

SDG No.:

Batch Number: 759183

Batch Start Date: 01/16/23 13:10

Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY

Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL_00052	SG_GLY_ISTD_00105	SG_GlyICV_00052		
CCVIS 680-759183/5		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-759183/6		8015C GLY		1 mL		10 uL	10 uL		
LCSD 680-759183/7		8015C GLY		1 mL		10 uL	10 uL		
MB 680-759183/10		8015C GLY		1 mL		10 uL			
580-122104-C-1	AF-RHMW03-WGN01L F-2301W1	8015C GLY	T	1 mL		10 uL			
580-122104-C-2	AF-RHMW02-WGN01L F-2301W1	8015C GLY	T	1 mL		10 uL			
580-122104-C-3	AF-RHMW225401-WG N01B-2301W1	8015C GLY	T	1 mL		10 uL			
580-122104-C-4	AF-RHMW17-WGN01L F-2301W1	8015C GLY	T	1 mL		10 uL			
580-122104-C-5	AF-RHMW17-WQFB01 -2301W1	8015C GLY	T	1 mL		10 uL			
580-122104-C-6	AF-RHMW17D-WGN01 LF-2301W1	8015C GLY	T	1 mL		10 uL			
580-122104-C-7	AF-RHMW17D-WQEBO 1-2301W1	8015C GLY	T	1 mL		10 uL			
580-122104-C-8	AF-RHMW03-WGN01L F-2301W2	8015C GLY	T	1 mL		10 uL			
580-122104-C-9	AF-RHMW02-WGN01L F-2301W2	8015C GLY	T	1 mL		10 uL			
580-122104-C-1 MS	AF-RHMW03-WGN01L F-2301W1	8015C GLY	T	1 mL		10 uL	10 uL		
580-122104-C-1 MSD	AF-RHMW03-WGN01L F-2301W1	8015C GLY	T	1 mL		10 uL	10 uL		
CCV 680-759183/24		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8015C GLY

Page 1 of 1

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

Client Information		Sampler: <i>Timothy M</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): UNITED FedEx AWB 85639945		COC No: 2301W1EUSav-02			
Client Contact:		Phone: <i>806-382-8657</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1			
Company: AECOM		PWSID:		Analysis Requested							
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract									
City: Honolulu		TAT Requested (days): Rush - ASAP									
State, Zip: Hawaii 96813		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 808-954-4512 / 770-331-0794		PO #:									
Email: Watson Tanji (walson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:									
Project Name: CTO N6274223F0104		Project #: 60697810									
Site: RHSF		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perfom MSDS (Yes or No)	8015C_DAI_GI_D5/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Preservation Codes:	
AF-RHMW03-WGN01LF-2301W1		<i>1/5/23</i>	<i>1355</i>	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A	3	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
										<i>United AWB 85639945</i>	
										Special Instructions/Note:	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT_AECOM EOQS EDD.									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>Timothy M</i>	Date/Time: <i>1/5/23 1530</i>	Company: AECOM		Received by: <i>Miranda DeCarro</i>		Date/Time: <i>1/5/23 1530</i>	Company: AECOM				
Relinquished by: <i>Miranda DeCarro</i>	Date/Time: <i>1/5/23 1245</i>	Company:		Received by: <i>Miranda DeCarro</i>		Date/Time: <i>1/5/23 1500</i>	Company:				
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: <i>2.4/2.4</i>					

Ver. 01/16/2019

Chain of Custody Record

Client Information		Sampler: <i>Tianzhen Nie</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): <i>UNITED FedEx AWB 8563945</i>		COC No: 2301W1EUSav-01				
Client Contact:		Phone: <i>804-362-8654</i>		E-Mail: <i>M.Elaime.Walker@EurofinsET.com</i>		State of Origin: Hawaii		Page: Page 1 of 1				
Company: AECOM		PWSID:		Analysis Requested								
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract										
City: Honolulu		TAT Requested (days): Rush - ASAP										
State, Zip: Hawaii 96813		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										
Phone: 808-954-4512 / 770-331-0794		PO #:										
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:										
Project Name: CTO N6274223F0104		Project #: 60697810										
Site: RHSF		SSOW#:										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Performs MS/MSD (Yes or No)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Preservation Codes:		
		<i>1/9/23</i>	<i>1225</i>	G	W	N	N	X	<i>1/11/23</i>	<i>1/16/23</i>	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
		Special Instructions/Note: <i>United AWB 8563945</i>										
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS EDD.										
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:							
Relinquished by: <i>Tianzhen Nie</i>	Date/Time: <i>1/9/23 1530</i>	Company: AECOM	Received by: <i>Miranda Degarmo</i>	Date/Time: <i>1/9/23 1530</i>		Company: <i>AECOM</i>						
Relinquished by: <i>Miranda Degarmo</i>	Date/Time: <i>1/18/23 1245</i>	Company:	Received by: <i>Cory</i>	Date/Time: <i>1/11/23 1500</i>		Company:						
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:		Company:						
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks: <i>2.4 / 2.4</i>								

Ver: 01/16/2019

Chain of Custody Record

Client Information		Sampler: <i>Elaine Walker</i>	Lab PM: Elaine Walker		Carrier Tracking No(s): UNITEO FedEx ANB85639945		COC No: 2301W1EUSav-03		
Client Contact:		Phone: <i>808-286-3810</i>			State of Origin: Hawaii		Page: Page 1 of 1		
Company: AECOM		PWSID:					Job #:		
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract				Analysis Requested		Preservation Codes:	
City: Honolulu		TAT Requested (days): Rush - ASAP							
State, Zip: Hawaii 96813		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Phone: 808-954-4512 / 770-331-0794		PO #:							
Email: Watson Tanji (walson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)		WO #:							
Project Name: CTO N6274223F0104		Project #: 60697810							
Site: RHSF		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastebol, B=Tissue, A=Air)	Field Filtered Sample Yes or No	Permeable MSDS (Yes or No)	8015C_DAI_GI_D51_2-(2-mutoxyethoxy)-ethanol	Total Number of containers
AF-RHMW225401-WGN01B-2301W1		<i>1/5/23</i>	<i>0845</i>	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A	<i>3</i>
Non-Hazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/Note:							
Deliverable Requested: I, II, III, IV, Other (specify) Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS FDD.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Empty Kit Relinquished by: <i>JW</i> <i>Elaine Walker</i>		Date: <i>1/5/23</i>	Time: <i>1545</i>	Method of Shipment:					
Relinquished by: <i>JW</i> <i>Elaine Walker</i>	Date/Time: <i>1/5/23</i> <i>1545</i>	Company: AECOM	Received by: <i>Miranda Delarmo</i>	Date/Time: <i>01/05/23</i> <i>1545</i>	Company: AECOM				
Relinquished by: <i>Miranda Delarmo</i>	Date/Time: <i>1/10/23</i> <i>1245</i>	Company:	Received by: <i>JW</i>	Date/Time: <i>1/11/23</i> <i>1500</i>	Company:				
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: <i>24124</i>	Cooler Temperature(s) °C and Other Remarks: <i>24/24</i>							

Ver: 01/16/2019

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

 eurofins | Environment Testing America

Client Information		Sampler: <i>Tianzhen Mei</i>	Lab PM: <i>Elaine Walker</i>	Carrier Tracking No(s): <i>UN 1161</i> <i>FedEx AWB856239945</i>	COC No: <i>2301W1EUSav-10</i>		
Client Contact:		Phone: <i>808-382-8657</i>	E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>	State of Origin: <i>Hawaii</i>	Page: <i>Page 1 of 1</i>		
Company: AECOM		PWSID:	Analysis Requested				
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract					
City: Honolulu		TAT Requested (days): Rush - ASAP					
State, Zip: Hawaii 96813		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Phone: 808-954-4512 / 770-331-0794		PO #:					
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:					
Project Name: CTO N6274223F0104		Project #: 60697810					
Site: RHSF		SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, T=tissue, A=air)		
					Field Filtered Sample (Yes or No) <i>8015C_DAL_G1_D5/2-(2-butoxyethoxy)-ethanol</i>	Perform IWS/MSD (Yes or No) <i>A</i>	
					Total Number of containers		
					Special Instructions/Note:		
AF-RHMW17-WGN01LF-2301W1		<i>1/6/23</i>	<i>1320</i>	G	W	N N X	3
AF-RHMW17-WQFB01-2301W1		<i>1/6/23</i>	<i>1530</i>	G	W	N N X	3
		<i>gn 1/6/23</i>					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify) Prelim data (Level 1 or 2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS FDD.		Special Instructions/QC Requirements: DOD QSM project.					
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <i>Tianzhen Mei</i>	Date/Time: <i>1/6/23 1540</i>	Company: <i>AECOM</i>	Received by: <i>Miranda DeGarmo</i>	Date/Time: <i>1/6/23 1540</i>	Company: <i>AECOM</i>		
Relinquished by: <i>Miranda DeGarmo</i>	Date/Time: <i>1/6/23 1245</i>	Company: <i>AECOM</i>	Received by: <i>Ch</i>	Date/Time: <i>1/6/23 1500</i>	Company: <i>AECOM</i>		
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: <i>2-412-9</i>	Cooler Temperature(s) and Other Remarks: <i>2.4/2.9</i>					

Ver: 01/16/2019

Chain of Custody Record

Client Information		Sampler: <i>Tianzhen Nie</i>	Lab PM: <i>Elaine Walker</i>	Carrier Tracking No(s): UNITED FedEx AWB85639945	COC No: 2301W1EUSav-11	
Client Contact:		Phone: 808-382-8694	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1	
Company: AECOM		PWSID:	Analysis Requested			
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract				
City: Honolulu		TAT Requested (days): Rush - ASAP				
State, Zip: Hawaii 96813		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Phone: 808-954-4512 / 770-331-0794		PO #:				
Email: Watson.Tanji(watson.tanji@aecom.com)/Mark.Kromis(mark.kromis@aecom.com)		WO #:				
Project Name: CTO N6274223F0104		Project #: 60697810				
Site: RHSF		SSOW#:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)	
		Field Filtered Sample (Yes or No) 8015C_DAL_GL_D5(2-(2-butoxyethoxy)-ethanol)				Perform MS/MSD (Yes or No)
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> A	
AF-RHMW17D-WGN01LF-2301W1		<i>1/6/23</i>	<i>1205</i>	G	W <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> X	3
AF-RHMW17D-WQEB01-2301W1		<i>1/6/23</i>	<i>1525</i>	G	W <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> X	3
						1
<i>in 1/6/23</i>						
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)			Prelim data (Level 1 or 2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD.			Special Instructions/QC Requirements: DOD QSM project.
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: <i>Tianzhen Nie</i>		Date/Time: <i>1/6/23 1540</i>	Company: AECOM	Received by: <i>Miranda DeGarmo</i>	Date/Time: <i>1/6/23 1540</i>	Company: AECOM
Relinquished by: <i>Miranda DeGarmo</i>		Date/Time: <i>1/10/23 1245</i>	Company: AECOM	Received by: <i>CJ</i>	Date/Time: <i>1/10/23 1500</i>	Company: AECOM
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Colder Temperature(s) °C and Other Remarks:			<i>2.4/2.4</i>	

Ver. 01/16/2019

Chain of Custody Record

Client Information		Sampler: Julia Stowe	Lab PM: Elaine Walker	Carrier Tracking No(s): UN 1161 FedEx AWB#5639945	COC No: 2301W2AFAE02							
Client Contact:		Phone: 440-420-1736	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1							
Company: AECOM		PWSID:	Analysis Requested									
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract										
City: Honolulu		TAT Requested (days): Rush - ASAP										
State, Zip: Hawaii 96813		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										
Phone: 808-954-4512 / 770-331-0794		PO #:										
Email: Watson.Tanji (watson.tanji@aecom.com) / Mark.Kromis (mark.kromis@aecom.com)		WO #:										
Project Name: CTO N6274223F0104		Project #: 60697810										
Site: RHSF		SSOW#:										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Preservation Code: A	Total Number of containers	Special Instructions/Note:			
AF-RHMW03-WGN01LF-2301W2		1/1/2023	1410	G	W	N	N	X	3			
MD 01/09/23												
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months						
Deliverable Requested: I, II, III, IV, Other (specify) Prelim data (Level 1 or 2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS EDD.						Special Instructions/QC Requirements: DOD QSM project.						
Empty Kit Relinquished by: Julia Stowe J.M. Stowe			Date: 1/1/2023 Time: 1540			Method of Shipment:						
Relinquished by: Julia Stowe J.M. Stowe			Date/Time: 1/1/2023 1540			Received by: Miranda DeGarmo			Date/Time: 1/1/23 1540			
Relinquished by: Miranda DeGarmo			Date/Time: 1/10/23 1245			Received by: CJ			Date/Time: 1/11/23 1500			
Relinquished by:			Date/Time:			Received by:			Date/Time:			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 2-4/2-4				Cooler Temperature(s) °C and Other Remarks:						

Ver: 01/16/2019

Chain of Custody Record

Client Information		Sampler: <i>Julia Stone</i>	Lab PM: <i>Elaine Walker</i>	Carrier Tracking No(s): <i>UN JITED FedEx AWB85639945</i>	COC No: <i>2301W2AFEA01</i>	
Client Contact:		Phone: <i>440-420-1736</i>	E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>	Slate of Origin: <i>Hawaii</i>	Page: <i>Page 1 of 1</i>	
Company: AECOM		PWSID:	Analysis Requested			
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract				
City: Honolulu		TAT Requested (days): Rush - ASAP				
State, Zip: Hawaii 96813		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Phone: 808-954-4512 / 770-331-0794		PO #:				
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:				
Project Name: CTO N6274223F0104		Project #: 60697810				
Site: RHSF		SSOW#:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)
		<i>1/9/2023</i>	<i>1240</i>	<i>G</i>	<i>W</i>	<i>N</i>
AF-RHMW02-WGN01LF-2301W2		Preservation Code:				Total Number of containers
		<i>8015C_DAI_GI_D5/2-(2-butoxyethoxy)-ethanol</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>3</i>
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input checked="" type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
						<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1 or 2)=see TAT above. DoD Stage 4 report standard TAT_AECOM EQuIS EDD				
Empty Kit Relinquished by:		Date: <i>1/9/2023</i>	Time: <i>1540</i>	Method of Shipment:		
Relinquished by: <i>Julia Stone 2/11/82</i>	Company: <i>AECOM</i>	Received by: <i>Miranda DeGarmo</i>	Date/Time: <i>1/9/23 1540</i>	Company: <i>AECOM</i>		
Relinquished by: <i>Miranda DeGarmo</i>	Company: <i>AECOM</i>	Received by: <i>JLJ</i>	Date/Time: <i>1/10/23 1245</i>	Company: <i>1500</i>		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <i>2-4/2-4</i>				

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-122104-1

Login Number: 122104

List Source: Eurofins Savannah

List Number: 2

List Creation: 01/16/23 12:25 PM

Creator: Meincke, Griffin E

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		